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# A. A. Belov, N. N. Kalitkin. Quasi-Independent Particles Model for Heterogeneous Plasma Microfield

Optical properties of plasmas are determined by presence of fluctuating microscopic electric field. The present work provides thorough analysis of contemporary models and points out their shortcomings. To overcome the latter, we take the QUIP (QUasi-Independent Particles) model derived ab initio. We provide generalization of the model allowing to account for microfield heterogeneity up to octupole term. We investigate convergence of the multipole series and and show that higher order terms can be neglected. We perform verification of the model via comparison with experiments. We emphasize that the comparison should be made with respect to the number of observed lines because this number strongly depends on the selected model. We outline experiments suitable for such testing. These are the experiments on Ar+Kr radiating plasma heated by laser radiation. In these experiments, the intire Ar<sup>+16</sup> spectral series is observed. The QUIP model correctly describes the number of observed lines of the series, so its adequateness is justified.

Keywords: plasma, microfield, the Stark effect

## $1 \quad \Pi_{,\Pi_{,\Pi_{,\Pi_{,H_{N}}}},\Pi_{,\Pi_{N}},\Pi_{,H_{N}},\Pi_$

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,-
\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi 
                                                                                             \Pi > , \Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Z_1 Z_2 / r^2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_
\Pi \gg , \Pi \gg
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\Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
    \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg , \Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg 
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_
    \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4\pi r^2 dr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg 
\Pi \gg_* \Pi \gg_
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg ,
\Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg 
                                                                                                                \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
\Pi \gg , \Pi \gg 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi
```

|1|.  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg , \Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi > ,,\Pi >$  $\Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,-\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg , \Pi \gg$ 

 $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_$  $\Pi \gg,, \Pi \gg,, \Pi \gg,, \Pi \gg,, \Pi \gg,, \Pi \gg,, \Pi \gg,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$ E $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\langle Z \rangle / R^2$ ;  $\Pi > ,,\Pi > ,,$  $\langle Z \rangle$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$ R $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$ 

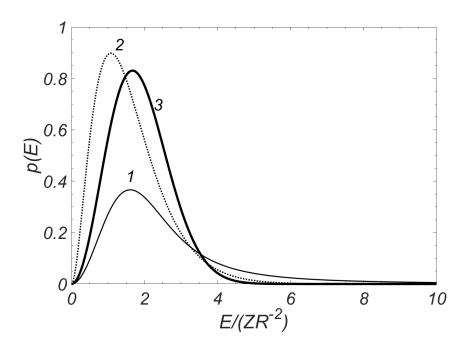


Рис. 1:  $\Pi \gg_n \Pi \gg_n \Pi$ 

 $\Pi > , \Pi >$  $\Pi > , \Pi >$ Π≫,,  $\Pi > , \Pi >$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,, \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$ 

```
[2].
   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,
   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,
   \Pi > , \Pi > 
                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg 
   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |3|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |4|
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
   \Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg_* \Pi \gg_
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg 
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\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ..
                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |7|
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg ,,\Pi \gg ,,
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi \gg_1 \Pi \gg_
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,\Pi \gg ,,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Π≫,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg , \Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
   \Pi > , \Pi > 
      10
                                                                                                                                                                                                                                                                                                                                                                          |14|.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg 
      |15|,
                                                                                                                                                                                                                                                                                                                                                                                                                                      |16|.
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   \Pi \gg ,,\Pi \gg 
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   \Pi > , \Pi > 
                                                                                                                    \Pi \gg_{1,1} \ll_{1,1} \ll_
   \Pi \gg ..
   \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,,\Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1960-\pi»,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi > , \Pi > 
   \Pi \gg_{,,\Pi} \gg_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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 $\Pi > ,,\Pi >$ 

 $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,-\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg_{,,,} \Pi \gg_{,,} \Pi \gg_{,,}$  $\Pi > ,,\Pi >$  $\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{$ Π≫,,  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,-\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg ,,\Pi \gg$  $\Pi > , \Pi >$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$ 

 $\Pi >_{,,} \quad \Pi >_{,,} \Pi >_{,,} \Pi >_{,} \Pi >_{,}$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,, \Pi \gg ,, \Pi \gg ,$ E $\infty$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$  $E^{-5/2}$ p(E) $\Pi \gg_{,,\Pi} \gg_{,,} \qquad \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $E^{2}/(8\pi)$ .  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi >_{,,} \Pi >_{,,} \Pi >_{,,} \Pi >_{,,} \Pi >_{,} \Pi >_{,}$ 

 $\frac{1}{8\pi} \int_0^\infty E^2 p(E) dE \tag{1}$ 

 $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,!$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg , \Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ 

 $\Pi \gg_* \Pi \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$ 

## $\Pi > , \Pi >$

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$ |2|.  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$ |33|, |34|.  $\Pi > ,,\Pi >$  $\Pi \gg ,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$ 1.  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$  $\Pi \gg ,,\Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,, \Pi \gg ,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$ T0 $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_5 M \gg_$  $\Pi > , \Pi >$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{$ 

## $\Pi > , \Pi >$

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\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi > ,,\Pi > ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg ,
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    \Pi \gg ...
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\Pi > ,,\Pi > ,,
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\Pi \gg ,,\Pi \gg 
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\Pi > ,,\Pi > 
\Pi > ,,\Pi > 
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\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg 
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\Pi > ,,\Pi > ,,
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\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_4 \Pi \gg_5 \Pi \gg_5 \Pi \gg_5 \Pi \gg_6 \Pi \gg_
\Pi >_{,,} \Pi >_{,} \Pi >
\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg 
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\Pi > , \Pi > 
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Π≫,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi > ,,\Pi > ,,
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi \gg , \Pi \gg 
\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |35|,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |36|,
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                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,
\Pi \gg ,,\Pi \gg 
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 $\Pi \gg ,\!\!\Pi \gg ,\!\!$ 

 $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$ 

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[45]
    \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
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    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg 
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                                                                                                         \Pi \gg ,,\Pi \gg ,,-\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,\Pi \gg ,,,
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\Pi > ,,\Pi > ,,
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    \Pi \gg ,
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\Pi > ,,\Pi > ,,
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                                                                                                         \Pi > ,,\Pi > ,,-\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
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\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*
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\Pi > , \Pi >
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 $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$ 

 $\Pi \gg ,,\Pi \gg$ 

 $\Pi \gg ,, \Pi \gg ,,$ 

 $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$ 

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 $\Pi \gg ,,\Pi \gg ,,...$ 

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ 

 $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$ |54||56| $(\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg$ ,,  $\Pi \gg$ ,, $\Pi \gg$ ,, $\Pi \gg$ ,, $\Pi \gg$ ,, $\Pi \gg$ , |2|).  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ QUIP - QUasi-Independent Particles.  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg$  $\Pi \gg$ ,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,\!, \Pi \gg$  $\Pi > ,,\Pi > ,,$ 1.  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$ E $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\infty$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,}$  $\Pi \gg ,,\Pi \gg ,,$ 

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\Pi > ,,\Pi > ,,
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\Pi >_{,,\Pi} >_{,\Pi} = \Pi >_{,\Pi} = \Pi
                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,\Pi \gg ,,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi > ,,\Pi > ,,
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\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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   \Pi \gg ,\!\! /\Pi \gg ,\!\! /\Pi
\Pi > ,,\Pi > ,,
\Pi \gg_* \Pi \gg_
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\Pi > , \Pi > 
\Pi > , \Pi > 
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\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi > ,,\Pi > 
\Pi \gg ,,\Pi \gg 
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\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi > ,,\Pi > ,,
\Pi > ,,\Pi > 
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\Pi > ,,\Pi > 
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\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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     \Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg 
     \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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     \Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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     \Pi > , \Pi > 
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_5 M \gg_
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg 
                                                                                                                                         \Pi \gg_* \Pi \gg_
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg , \Pi \gg 
\Pi \gg ,,\Pi \gg 
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     \Pi \gg ,,\Pi \gg 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,
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\Pi \gg_* \Pi \gg_
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg 
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\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
     \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg , \Pi \gg
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## $\Pi > , \Pi >$

 $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,}$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg , \Pi \gg$  $\Pi > , \Pi >$ 

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\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg 
\Pi \gg_1 \Pi \gg_
\Pi \gg ,,\Pi \gg 
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     \Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,,\Pi \gg 
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                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,
\Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg 
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\Pi > ,,\Pi > 
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   \Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg,, \dots
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
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\Pi > , \Pi > 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
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\Pi > , \Pi > 
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\Pi \gg ,,\Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_
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\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
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   \Pi \gg ,,\Pi \gg 
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\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi > , \Pi > 
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\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.
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\Pi \gg ,,\Pi \gg ,,
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   \Pi \gg , \Pi \gg 
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   \Pi \gg_{,,\Pi} \gg_{,,\Pi} = \Pi \gg_{,,\Pi} \gg_{,,\Pi
       |58|.
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 $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,$  $\Pi \gg ,,\Pi \gg$  $\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,\!\!, \Pi \gg ,\!\!, \qquad \qquad \Pi \gg ,\!\!, \Pi \gg ,\!$  $\Pi > , \Pi >$  $\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,$  $\Pi \gg ,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $\Pi \gg_{,,} \qquad \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,}$  $\Pi$ »,,  $\Pi$ »,, $\Pi$ »  $\Pi > ,,\Pi >$  $\Pi \gg_* \Pi \gg_$  $(Z_i)$  $\Pi \gg ,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg$  $\Pi > , \Pi >$ 

$$\sum_{j} Z_j = 0. (2)$$

$$\Phi(\mathbf{r}) = \sum_{j} \frac{Z_{j}}{|\mathbf{r}_{j} - \mathbf{r}|}.$$
(3)

 $\Pi \gg_{,,\Pi} \gg_$ 

$$\Phi(\mathbf{r}) = \Phi + \mathbf{Er} + \frac{1}{2}U\mathbf{rr} + \frac{1}{6}W\mathbf{rrr} + \dots$$
 (4)

$$\Phi = \Phi(\mathbf{r})|_{\mathbf{r}=0}, \quad \mathbf{E} = \frac{\partial \Phi(\mathbf{r})}{\partial \mathbf{r}}|_{\mathbf{r}=0}, \quad U = \frac{\partial^2 \Phi(\mathbf{r})}{\partial \mathbf{r}^2}|_{\mathbf{r}=0}, \quad W = \frac{\partial^3 \Phi(\mathbf{r})}{\partial \mathbf{r}^3}|_{\mathbf{r}=0}.$$
 (5)

$$\Phi = \sum_{j} \frac{Z_{j}}{r_{j}}, \quad r_{j} = \sqrt{x_{j}^{2} + y_{j}^{2} + z_{j}^{2}}.$$
 (6)

$$\mathbf{E} = \sum_{j} \frac{Z_{j}}{r_{j}^{3}} \mathbf{e}_{j}, \quad (e_{x})_{j} = x_{j}, \ (e_{y})_{j} = y_{j}, \ (e_{z})_{j} = z_{j}.$$
 (7)

 $\Pi \gg_{,,\Pi} \gg_$ 

$$U = \sum_{j} \frac{Z_j}{r_j^5} u_j, \tag{8}$$

$$(u_{xx})_j = 3x_j^2 - r_j^2 \quad (u_{yy})_j = 3y_j^2 - r_j^2, \quad (u_{zz})_j = 3z_j^2 - r_j^2 (u_{xy})_j = 3x_j y_j, \quad (u_{xz})_j = 3x_j z_j, \quad (u_{yz})_j = 3y_j z_j.$$
 (9)

$$W = \sum_{j} \frac{Z_j}{r_j^7} w_j, \tag{10}$$

$$(w_{xxx})_{j} = x_{j}(15x_{j}^{2} - 9r_{j}^{2}), \quad (w_{yyy})_{j} = y_{j}(15y_{j}^{2} - 9r_{j}^{2}), \quad (w_{zzz})_{j} = z_{j}(15z_{j}^{2} - 9r_{j}^{2}),$$

$$(w_{xxy})_{j} = y_{j}(15x_{j}^{2} - 3r_{j}^{2}), \quad (w_{xxz})_{j} = z_{j}(15x_{j}^{2} - 3r_{j}^{2}), \quad (w_{xyy})_{j} = x_{j}(15y_{j}^{2} - 3r_{j}^{2}),$$

$$(w_{xzz})_{j} = x_{j}(15z_{j}^{2} - 3r_{j}^{2}), \quad (w_{yyz})_{j} = z_{j}(15y_{j}^{2} - 3r_{j}^{2}), \quad (w_{yzz})_{j} = y_{j}(15z_{j}^{2} - 3r_{j}^{2}),$$

$$(w_{xyz})_{j} = 15x_{j}y_{j}z_{j}.$$

$$(11)$$

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ j- $\Pi\gg$ ,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg , \Pi \gg$  $\Pi >,\!\!\Pi >,$  $\Pi > , \Pi > , \quad \Pi > , \quad \Pi > , \Pi > , \quad j. \quad \Pi > , \Pi > ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ 

$$Mr^{-n} \equiv Mr_j^{-n}.$$
 (12)

 $\Pi \gg_{,,\Pi} \gg_$ 

$$Mx_i^{\alpha}y_i^{\beta}z_i^{\gamma}r_i^{-\delta} = 0, \tag{13}$$

 $\Pi \gg_{,,\Pi} \gg_$ 

#### $\Pi > , \Pi >$

$$\mathbf{M}\Phi = \mathbf{M}\left(\sum_{j} \frac{Z_{j}}{r_{j}}\right) = \sum_{j} Z_{j}\left(\mathbf{M}r^{-1}\right) = 0.$$
 (14)

 $\Pi > , \Pi > , \dots >$ 

 $\Pi > , \Pi >$ 

$$p(\Phi) = \frac{1}{\sqrt{\pi}\Phi_0} \exp\left(-\frac{\Phi^2}{\Phi_0^2}\right), \quad \Phi_0 \sim \frac{Z_D}{R}.$$
 (15)

 $\Pi > , \Pi >$ 

$$D\Phi = M\Phi^{2} = M\left(\sum_{j} \frac{Z_{j}}{r_{j}}\right)^{2} = M\left(\sum_{j,k} \frac{Z_{j}Z_{k}}{r_{j}r_{k}}\right) = M\left(\sum_{j} \frac{Z_{j}Z_{k}}{r_{j}^{2}}\right) + M\left(\sum_{j\neq k} \frac{Z_{j}Z_{k}}{r_{j}r_{k}}\right) = \sum_{j} Z_{j}^{2} \left(Mr^{-2}\right) + \sum_{j\neq k} Z_{j}Z_{k} \left(Mr^{-1}\right)^{2}. \quad (16)$$

 $\Pi \gg_{,,\Pi} \gg_$ 

$$\sum_{j} Z_j^2 \left( \mathbf{M} r^{-1} \right)^2. \tag{17}$$

$$\sum_{j \neq k} Z_j Z_k \left( Mr^{-1} \right)^2 + \sum_j Z_j^2 \left( Mr^{-1} \right)^2 = \left( \sum_j Z_j \right)^2 \left( Mr^{-1} \right)^2 = 0$$

$$D\Phi = \sum_{j} Z_{j}^{2} \left[ Mr^{-2} - (Mr^{-1})^{2} \right].$$
 (18)

 $\Pi \gg_{,,\Pi} \gg_$ 

$$Z_D = \left(\sum_j Z_j^2\right)^{1/2},\tag{19}$$

 $\Pi \gg ,, \Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi > ,,\Pi >$ 

$$Z_H = \left(\sum_j |Z_j|^{3/2}\right)^{2/3}.$$
 (20)

$$Z_H/Z_D = (1+Z^{-1/2})^{2/3} (1+Z^{-1})^{-1/2}.$$
 (21)

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $Z_H$  $Z_D$ ,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$ 3  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$ 17%. $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$ 

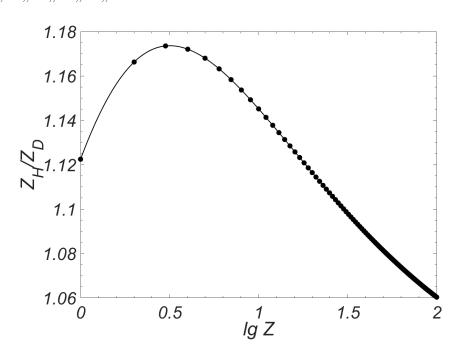


Рис. 2:  $\Pi$ »,  $Z_H$   $\Pi$ »,  $Z_D$ 

### $\Pi \gg ,\!\! \Pi \gg$

$$p(E_x) = \frac{1}{\sqrt{\pi}E_0} \exp\left(-\frac{E_x^2}{E_0^2}\right), \quad E_0 \sim \frac{Z_D}{R^2}$$
 (22)

 $E_0$  $\Pi \gg ,$  $\Pi \gg , \Pi \gg ,$  $Z_D$ R $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,..$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,, \qquad \qquad \Pi \gg ,, \Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \rangle_{,,\Pi} \rangle_{,\Pi} \rangle_{,$ 

$$DE_x = ME_x^2 = M\left(\sum_{j} \frac{Z_j}{r_j^3} x_j\right)^2 = M\left(\sum_{j,k} \frac{Z_j Z_k x_j x_k}{r_j^3 r_k^3}\right).$$
 (23)

$$DE_x = \frac{1}{3} \left( \sum_{j} Z_j^2 \right) Mr^{-4} = \frac{Z_D^2}{3} Mr^{-4}.$$
 (24)

 $\Pi \gg_{,,\Pi} \gg_$ 

 $\Pi \gg ,, \ \Pi \gg ,, \Pi \gg ,$ 

$$M(E_x E_y) = M\left(\sum_{j,k} \frac{Z_j Z_k x_j y_k}{r_j^3 r_k^3}\right) = 0,$$
 (25)

 $\Pi \gg , \Pi \gg$  $x_i y_k$  $\Pi \gg_{,,\Pi} \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,, \Pi \gg ,,$  $\mathbf{E}$  $\Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,$  $\Pi > , \Pi >$  $\Pi_{n},\Pi_{n$  $\Pi > , \Pi >$ Π≫,,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$ 

$$p(E) = \frac{4E^2}{\sqrt{\pi}E_0^3} \exp\left(-\frac{E^2}{E_0^2}\right). \tag{26}$$

$$\operatorname{corr}(\Phi, E_x) \sim \operatorname{M}(\Phi E_x) = \sum_{i,k} \frac{Z_j Z_k x_k}{r_j r_k^3} = 0, \tag{27}$$

 $x_k$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi$  $\operatorname{corr}(\Phi, E^2)$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi >, \Pi >, \Pi >, \Pi >, \Pi >, (6), (7)$ :

$$M(\Phi E^2) = \sum_{i} Z_j^3 \left[ Mr^{-5} - \left( Mr^{-4} \right) \left( Mr^{-1} \right) \right].$$
 (28)

 $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ..\Pi \gg ..$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,\Pi \gg ,,\Pi \gg ,,\Pi$ (28) $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$ 

## $\Pi > , \Pi >$

 $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi_{n},\Pi_{n$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg$  $\Pi \gg , \Pi \gg$  $\Pi \gg , \Pi \gg$  $\Pi \gg_{,,1} \Pi \gg_{,,1} \Pi \gg_{,,1} \Pi \gg_{,,1} \Pi \gg_{,1} \Pi \gg_{,$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi$ »,,  $\Pi > , \Pi >$  $\Pi > , \Pi >$  $\Pi \gg ,\Pi \gg ,\Pi \gg ,\Pi \gg ,r_i^2$ .

$$DU_{xy} = DU_{xz} = DU_{yz} = (3/5)Z_D^2 M r^{-6}.$$
 (29)

 $\Pi \gg , \Pi \gg$ 

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,..$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{$  $k \quad \Pi \gg ,, \quad j \quad \neq \quad$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,-\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_* \Pi \gg_$  $\Pi >_{,,} \Pi >_{,,} \Pi >_{,,} \Pi >_{,,} \Pi >_{,} \Pi >_{,}$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,:$ 

$$DU_{xx} = DU_{yy} = DU_{zz} = (4/5)Z_D^2 M r^{-6}.$$
 (30)

 $\Pi \gg_{,,\Pi} \gg_$ 

$$p(U_{xx}) = \frac{1}{\sqrt{\pi}U_0} \exp\left(-\frac{U_{xx}^2}{U_0^2}\right), \quad U_0 \sim \frac{Z_D}{R^3}$$
 (31)

 $\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,,} \Pi \gg_{,} \Pi$ 

$$p(U_{xy}) = \frac{2}{\sqrt{3\pi}U_0} \exp\left(-\frac{4}{3}\frac{U_{xy}^2}{U_0^2}\right)$$
 (32)

 $\Pi \gg , \Pi \gg$ 

$$\operatorname{corr}(E_x, U_{xx}) = \operatorname{corr}(E_x, U_{xy}) = \dots = 0. \tag{33}$$

 $\Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{$ 

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg , \dots$  $\Pi \gg ,\!, \Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $\Pi \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg ,\!\! \Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$  $p(E_x, U_{xx}) = p(E_x)p(U_{xx}).$ 

 $\Pi \gg_{,,\Pi} \gg_$ 

$$corr(U_{xy}, U_{yx}) = corr(U_{xz}, U_{zx}) = corr(U_{yz}, U_{zy}) = +1, corr(U_{xx}, U_{yy}) = corr(U_{xx}, U_{zz}) = corr(U_{yy}, U_{zz}) = +1/2.$$
(34)

 $\Pi \gg , \Pi \gg$ 

#### $\Pi > , \Pi >$

27  $\Pi \gg ,,\Pi \gg ,,$ 3- $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi \gg , \Pi \gg$  $\Pi \gg_* \Pi \gg_$ (8). $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,}\Pi \gg_{,,}\Pi \gg_{,,}\Pi \gg_{,}\Pi \gg_$  $\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$ 

 $\Pi \gg_{,,} \Pi \gg_{,} \Pi \gg$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $MW_{xxx}$ 0.  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg ,,\Pi \gg$ W.  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$ k $\Pi \gg ,, \Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$ i $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ 3  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{$  $\Pi > ,,\Pi >$  $\Pi > ,,\Pi > ,,$  $\Pi \gg_{,,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,,} \Pi \gg_{,} \Pi$ 

$$DW_{xyz} = \dots = (15/7)Z_D^2 M r^{-8}.$$
 (35)

$$DW_{xxy} = DW_{xxz} = \dots = (24/7)Z_D^2 Mr^{-8}.$$
 (36)

$$DW_{xxx} = DW_{yyy} = DW_{zzz} = (36/7)Z_D^2 Mr^{-8}.$$
 (37)

 $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{,\Pi} \gg_{$ 

 $\Pi > , \Pi >$ 

 $\Pi \gg_*, \Pi \gg_*,$ 

$$p(W_{xxx}) = \frac{1}{\sqrt{\pi W_0}} \exp\left(-\frac{W_{xxx}^2}{W_0^2}\right), \quad W_0 \sim Z_D/R^4,$$
 (38)

$$p(W_{xxy}) = \frac{\sqrt{3}}{\sqrt{2\pi}W_0} \exp\left(-\frac{3}{2}\frac{W_{xxy}^2}{W_0^2}\right),\tag{39}$$

$$p(W_{xyz}) = \frac{\sqrt{12}}{\sqrt{5\pi}W_0} \exp\left(-\frac{12}{5} \frac{W_{xxx}^2}{W_0^2}\right). \tag{40}$$

$$\operatorname{corr}(U_{xx}, W_{xxx}) = \operatorname{corr}(U_{xx}, W_{xxy}) = \operatorname{corr}(U_{xx}, W_{xyz}) = \dots = 0,$$
  
 $\operatorname{corr}(\Phi, W_{xxx}) = \operatorname{corr}(\Phi, W_{xxy}) = \operatorname{corr}(\Phi, W_{xyz}) = \dots = 0.$  (41)

 $\Pi \gg ,,\Pi \gg$ 

 $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{$ 

$$\operatorname{corr}(E_x, W_{xxx}) = \operatorname{corr}(E_x, W_{xxy}) = \operatorname{corr}(E_x, W_{xyz}) = \dots = 0.$$
 (42)

## 

 $\Pi \gg , \Pi \gg$ 

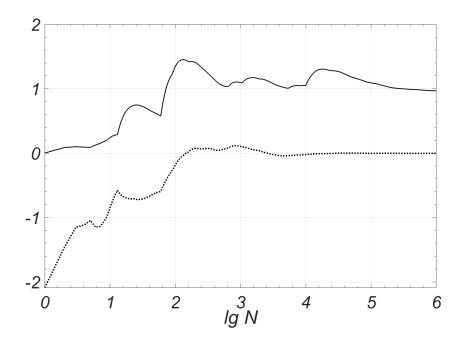
 $\|, \ll \Pi_{*}, \ll \Pi_{*}$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ n.  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi \gg_{+} \Pi \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{++} \Pi \gg_{++} \Pi$  $\Pi \gg_{,,} \Pi \gg_{,}$   $\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,}$  $\Pi \gg_* \Pi \gg_$ (18). $\Phi_0$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg ,,\Pi \gg ,,$  $(\Pi \gg,,\Pi \gg,,\Pi \gg,,$  $\Pi \gg , \Pi \gg$  $\Pi >,, \quad \Pi >,, \Pi$  $\mathbf{M}r^{-1} = (3/2)R^{-1} \, \mathbf{n} \times \mathbf{M}r^{-2} = 3R^{-2} \cdot \mathbf{n} \times \mathbf{n} \times$ 

$$\Phi_0 = \sqrt{\frac{3}{2}} \frac{Z_D}{R}.\tag{43}$$

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ ДΦ ΜФ Π≫,,  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,\!\!, \Pi \gg ,\!\!, \Pi \gg ,\!\!, \Pi \gg ,\!\!, -\Pi \gg ,\!\!, \Pi \gg ,\!\!,$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $10^{5}$  $10^{7}$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg$  $10^3$   $\pi$ ,, $\pi$ ,, $\pi$ ,, $\pi$ ,, $\pi$ ,, $\pi$ ,,...  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$ 

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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,
    \Pi \gg ,,\Pi \gg 
        \Pi > , \Pi > 
    \Pi \gg ,\!, \Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi > , Z = 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Z_H
                                                                                                                                                                                                                                                                                                                                                                                                                                              Z_D = \Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi_{,\Pi},\Pi
        3
                                                                                                                                                           \Pi \gg , \Pi \gg 
        \Pi \gg 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg 
        N.
                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1
    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,
\Pi»,, \Pi»,,\Pi»,,\Pi»,,\Pi»,,\Pi»,,\Pi»,,\Pi»,,\Pi»,,\Pi»,,\Pi»,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R.
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg_* \Pi \gg_
    \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N^{-1/2}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg 
    \Pi > , \Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Z_D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,
    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17\%
    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                     Z_H.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg 
    \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > 
    \Pi >_{,}\Pi >_{,}
    \Pi > ,,\Pi > 
    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg 
    \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > , \Pi > 
    \Pi > , \Pi > 
\Pi \gg ,,\Pi \gg ,,...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg 
    \Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*
    \Pi \gg , \Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C_E^2 = R^4 M r^{-4}, \quad C_U^2 = R^6 M r^{-6}, \quad C_W^2 = R^8 M r^{-8}.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (44)
```

 $\Pi > , \Pi >$ 



 $\Pi \gg , \Pi \gg$ 

#### $\Pi > , \Pi >$

$$\mathbf{E}(\mathbf{r}) = \mathbf{E} + U\mathbf{r} + (1/2)W\mathbf{r}\mathbf{r} + \dots, \quad r < R. \tag{45}$$

 $\Pi \gg_{,,\Pi} \gg_$ 

$$E^{2}(\mathbf{r}) \equiv \mathbf{E}(\mathbf{r})\mathbf{E}(\mathbf{r}) =$$

$$= \mathbf{E}\mathbf{E} + 2\mathbf{E}U\mathbf{r} + \mathbf{r}UU\mathbf{r} + \mathbf{E}W\mathbf{r}\mathbf{r} + \mathbf{r}UW\mathbf{r}\mathbf{r} + (1/4)\mathbf{r}\mathbf{r}WW\mathbf{r}\mathbf{r} + \dots$$
(46)

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg , \Pi \gg$ (22),(31), $\Pi \gg_{,,\Pi} \gg_$ (32),(38)(40).  $\Pi_{n},\Pi_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\mathbf{E}U$ UWп»,,  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\mathbf{E}W$  $\Pi \gg ..$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$ 

$$E^{2}(\mathbf{r}) = \mathbf{E}\mathbf{E} + \mathbf{r}UU\mathbf{r} + (1/4)\mathbf{r}\mathbf{r}WW\mathbf{r}\mathbf{r} + \dots$$
 (47)

UU $\Pi \gg ...$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\!\Pi \gg ,,\!-\Pi \gg ,,\!\Pi \gg ,,\!\Pi \gg ,,\!\Pi \gg ,,\!\Pi \gg ,,\!\Pi \gg ,,\!, \Pi \gg ,, \Pi \gg ,,\!, \Pi \gg ,, \Pi \gg ,,\!, \Pi \gg ,,\!,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $(\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,)$ .  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,\Pi \gg ,,,$  $\Pi > , \Pi >$ 

$$\langle E^2(r)\rangle = Z_D^2 \left( Mr^{-4} + 2r^2 Mr^{-6} + (18/5)r^4 Mr^{-8} + \ldots \right).$$
 (48)

$$\frac{1}{8\pi} \int E^{2}(r) d\mathbf{r} = \frac{Z_{D}^{2}}{6} \left( R^{3} M \frac{1}{r^{4}} + \frac{6}{5} R^{5} M \frac{1}{r^{6}} + \frac{54}{35} R^{7} M \frac{1}{r^{8}} + \dots \right) = 
= \frac{Z_{D}^{2}}{6R} \left( C_{E}^{2} + \frac{6}{5} C_{U}^{2} + \frac{54}{35} C_{W}^{2} + \dots \right).$$
(49)

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\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,,\Pi \gg 
    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi > , \Pi > 
    \Pi \gg ,, 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg , \Pi \gg 
    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg 
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
    \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      [59]
                                                                                                          \Pi \gg..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (49)
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi > , \Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi > , \Pi > 
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
Π≫,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg_{,,\Pi} \gg_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (\Pi \gg,,\Pi \gg,,\Pi \gg,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,,\Pi \gg 
    \Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N,\Pi},\Pi_{N
    \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \qquad \Pi \gg ,, \qquad \Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg_{,,\Pi} \gg_
        \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg ,
    \Pi_{n}, 
    \Pi >, \Pi >, \Pi >, \Pi >, \Pi >, \Pi >, \Omega >
                                                                                                          \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                p(E)
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi > ,,\Pi > ,,
    \Pi \gg ,\!\! \Pi \gg 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,\Pi \gg ,,,
                                                                                                     \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                    \Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
        (49)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi > , \Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg 
        q.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg
```

 $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$ 

```
C_E = \sqrt{21/5}, \quad C_U = \sqrt{7/15}, \quad C_W = 14\sqrt{6/81}, \dots (50)
```

 $\Pi \gg , \Pi \gg , \Pi \gg ,$  $\Pi \gg ,\!\!\Pi \gg ,\!\!$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,\Pi \gg ,\Pi \gg , \qquad \sqrt{14/5} Z_D/R^2$  $\Pi \gg , \Pi \gg$  $\Pi \gg_{,,\Pi} \gg_$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$ 1.  $\Pi \gg_* \Pi \gg_$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi^{*},\Pi^{*$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}$  $\Pi \gg_{,,} \Pi \gg_{,} \Pi \gg$  $\Pi \gg ,,\Pi \gg$ (48) $\Pi \gg ,,\Pi \gg$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg$  $R^2$  $r^2$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ 0.3R). <  $\Pi \gg_{,,\Pi} \gg_{,,\Pi} \gg_{,,\Pi} \gg_{,,\Pi} \gg_{,,\Pi} \gg_{,,\Pi} \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{1} \Pi \gg_$  $\Pi \gg ,,\Pi \gg ,,...$ 

 $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg ,$  $\Pi \gg ,,\Pi \gg$ Π≫,,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi > , \Pi >$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$ Π≫.,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi \gg ,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$ 

# $\Pi > , \Pi >$

 $\Pi >_{,,} \qquad \Pi >_{,} \Pi$  $\Pi \gg , \Pi \gg$  $\Pi_{n},\Pi_{n$  $\Pi \gg ,,\Pi \gg$ R $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$ 1  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$ 

 $\Pi \gg , \Pi \gg$ 

$$R = \left(\frac{3V}{4\pi}\right)^{1/3}, \quad V = \frac{1}{\mathcal{N}},\tag{51}$$

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$ (k $Z_k$  $1, 2 \dots$ ).  $\Pi > ,,\Pi > ,,$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $(\Pi > ,,\Pi >$ 

$$\sum_{k>1} \xi_k = 1, \quad \sum_{k>1} Z_k \xi_k = \xi_e. \tag{52}$$

 $\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi$ 

$$Z_D^2 = (-1)^2 \xi_e + \sum_{k>1} Z_k^2 \xi_k \equiv \xi_e + \sum_{k>1} Z_k^2 \xi_k \equiv \sum_{k>1} (Z_k^2 + Z_k) \xi_k.$$
 (53)

 $\Pi \gg_* \Pi \gg_$  $\Pi > , \Pi >$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$  $\Pi > , \Pi >$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,$  $\Pi > ,,\Pi > ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg$  $k=0,\;$  n>,n>,n>,n>,n>,n>, $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$ 

$$\sum_{k>0} \xi_k = 1, \quad \sum_{k>0} Z_k \xi_k \equiv \sum_{k>1} Z_k \xi_k = \xi_e. \tag{54}$$

 $\Pi \gg , \Pi \gg$ 

 $\Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,$  $\xi_0$ ).  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg , \Pi \gg$  $\Pi\gg$ ,,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$ 

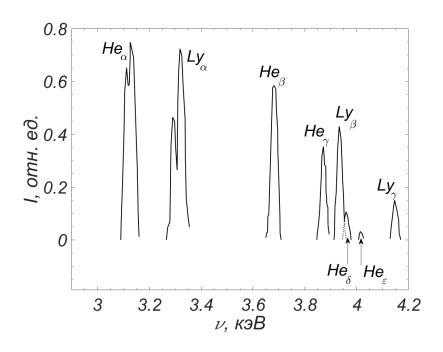
$$Z_D^2 = \frac{1}{1 - \xi_0} \left( \xi_e + \sum_{k \ge 1} Z_k^2 \xi_k \right), \quad R = \left[ \frac{3V}{4\pi (1 - \xi_0)} \right]^{1/3}.$$
 (55)

#### 

## $\Pi > , \Pi >$

 $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi > , \Pi >$  $\Pi > , \Pi >$  $\Pi \gg_{,,} \Pi \gg_{,} \Pi \gg$ 1984  $\Pi \gg 1$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg$  $(\Pi \gg,,\Pi \gg,,\Pi \gg,,-\Pi \gg,,\Pi \gg,,\Pi \gg,,)$  $\Pi > ,,\Pi >$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi >$ 

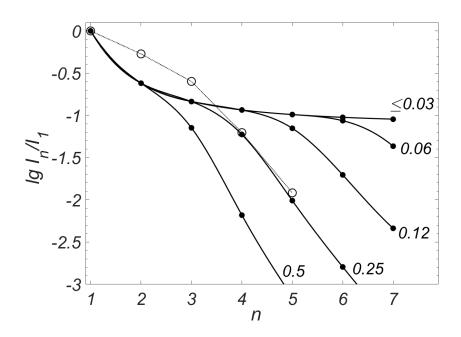
 $\Pi \gg ..\Pi \gg ..$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ Kr $\Pi \gg ,, \qquad \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,$ Ar,  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,.$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$ Π≫,,  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,, \Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,-$ Ar,  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,$  $\Pi^{*},\Pi^{*$ 



 $\Pi \gg_{,,\Pi} \gg_$ 

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[61].
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\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg 
   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
   \Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n
\Pi \gg_{,,\Pi} \gg_{,,.} \quad \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg
\Pi > , \Pi > 
   \Pi \gg ,, \Pi \gg ,, \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,..
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\Pi \gg_{,,\Pi} \gg_{,\Pi} 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg
\Pi \gg_1, \ \Pi \gg_1, \Pi \gg_1, \Pi \gg_1, \Pi \gg_1, \Pi \gg_2, \Pi \gg_3, \Pi \gg_4, \Pi \gg_4
(\Pi \gg ,,\Pi ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,...,
   \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
   \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
\Pi \gg ,,\Pi \gg ,,...
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
   \Pi \gg ,,\Pi \gg ,,...
                                                                                      \Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,\Pi \gg ,,,
\Pi \gg_{,,\Pi} \gg_
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg 
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\Pi \gg_{,,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,}
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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   \Pi \gg_{,,\Pi} \gg_
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\Pi \gg ,,\Pi \gg ,,...
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    \Pi \gg ,,\Pi \gg 
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    \Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,
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\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{
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\Pi > , \Pi > 
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\Pi > , \Pi > 
\Pi \gg_{,,\Pi} \gg_{,\Pi} 
\Pi \gg_{,,\Pi} \gg_{,,\Pi} \gg_{,,\Pi} = \Pi \gg_{,,\Pi} \gg_{,\Pi} 
    \Pi > ,,\Pi > 
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         (\Pi \gg ,,\Pi \gg ,,..,
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    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg 
\Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi > , \Pi > 
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\Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} 
                                                                                                                    \Pi \gg_{,,\Pi} \ll_{\Pi_{,,}} \ll_{\Pi_{,,}}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg_{,,\Pi} \gg_
\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        \Pi > ,,\Pi > 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi > ,,\Pi > ,,
    \Pi \gg , \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,
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\Pi \gg_{,,} \Pi \gg_{,} \Pi \gg
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{
\Pi \gg , \Pi \gg 
\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg ,,\Pi \gg 
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\Pi >, \Pi >, \Pi >, \Pi >, \Pi >, \Pi >,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
```



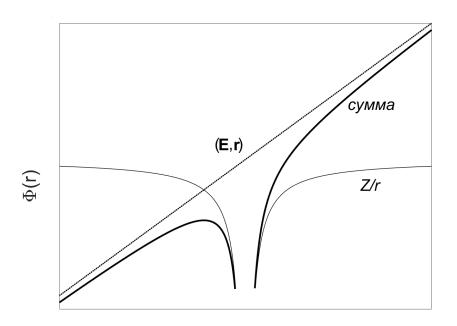
Puc. 5:  $\Pi \gg_n \Pi \gg_n \Pi$ 

### $\Pi > , \Pi >$

 $\Pi \gg_{,,\Pi} \gg_$ 

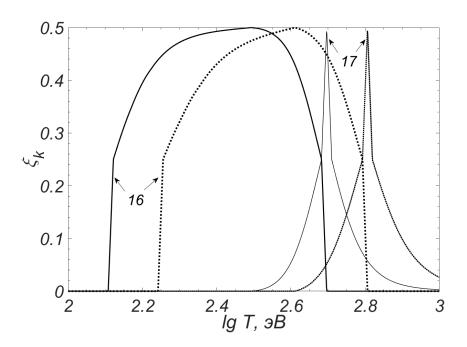
 $\Pi \gg ,,\Pi \gg ,,-\Pi \gg ,,\Pi ,$  $\Pi \gg , \Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi > , \Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $(\Pi \gg ,,\Pi \gg ,,...$ 6),  $\Pi \gg,,\Pi \gg,,\Pi \gg,,\Pi \gg,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$ 

 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg,,\Pi \gg,,\Pi \gg,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$  $\Pi > ,,\Pi >$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi >$  $\Pi_{n},\Pi_{n$  $\Pi \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg$ 



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\Pi \gg ,,\Pi \gg ,,...
                                                                                                                                 \Pi \gg , -\Pi \gg , \Pi \gg
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     \Pi \gg_{,,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg_{,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg 
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\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg ,
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\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg , \Pi \gg 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg 
\Pi > ,,\Pi > ,,
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\Pi \gg ,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}
\Pi \gg , \Pi \gg 
     \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg 
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          |75|
                                                                                                                                                                                                                                                                                        Π≫,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg 
     \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi > ,,\Pi > ,,
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\Pi \gg ,,\Pi \gg 
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\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,\Pi >,,.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \otimes_{\Pi} (\Pi_{1} \otimes \Pi_{1} \otimes \Pi_{
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg 
\Pi\gg,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg 
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\Pi \gg_1 \Pi \gg_2 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_4 \Pi \gg_5 \Pi \gg_
                                                                                                                            \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_
\Pi \gg ,,\Pi \gg 
\Pi \gg ,\!\!/\Pi \gg
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 $\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_$ 



 $\Pi \gg_* \Pi \gg_$  $\Pi \gg_* \Pi \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{1} \Pi \gg_$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_{,,\Pi} \gg_$  $Ar^{+16}$   $\pi \gg$ ,  $Ar^{+17}$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$ 7  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$ 0.1Π≫,,  $Ar^{+16}$  $\Pi \gg \pi / \Pi \gg \pi \gg \pi^3$ .  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\sim 30\%$ .  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg_* \Pi \gg_$  $\pm 15\%$ . 0.35 $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\rm Ar^{+17}$  $\Pi \gg ... \Pi \gg ... \Pi \gg ... \Pi \gg ...$  $T_{\mathrm{max}}$ 0.56 $\pm 12\%$ .  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi \gg , \Pi \gg , \Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$ 

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\Pi, (\Pi, \Pi), (
\Pi \gg ,, \Pi \gg ,,
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    \Pi \gg , \Pi \gg ,
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\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}
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    \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
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 $\Pi \gg ,,\Pi \gg ,,...$ 

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   \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,
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   \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
\xi_e \approx 26.0.
                                                                                             \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi}
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   \Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*},\Pi^{*
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   \Pi \gg ,
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   Z = 18. \text{ n}, \text{n}, \text
   \Pi \gg_{,,} \Pi \gg_{,} \Pi \gg
\langle \Pi \rangle, \Pi \rangle, \Pi \rangle, \Pi \rangle, \Pi \rangle, \emptyset
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   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg ,,
\Pi > ,,\Pi > 
                                                                                             \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg , \Pi \gg 
   \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
   Ar^{+16}.
                                                                                                                                                                                                                                                              \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg , \Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                              \Pi \gg_{,,\Pi} \gg_{,\Pi} \gg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi > ,,\Pi > ,,
   \Pi > , \Pi > 
   \Pi > ,,\Pi > ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     \Pi > ,,\Pi > ,,
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\begin{split} & \Pi \gg_{,,\Pi} \gg_{,,\Pi
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               [73]
        \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi \gg ,,\Pi \gg 
    \Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_5 \Pi \gg_
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi > ,,\Pi > 
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg_* \Pi \gg_
\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_1 \Pi \gg_1 \Pi \gg_2 \Pi \gg_3 \Pi \gg_4 \Pi \gg_
\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n},\Pi_{n
                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg_{+}\Pi \gg_{+}
\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi
                                                                                                    \Pi >_{,}\Pi >_{,}
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Π≫,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,, \Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi \gg ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg 
\Pi > ,,\Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,
\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               \Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       \Pi \gg ,,\Pi \gg 
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\Pi \gg ,,\Pi \gg 
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\Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg , \Pi \gg 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
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[54]
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\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
\Pi > , \Pi > 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
    \Pi,,\Pi,,\Pi,,\Pi,,\Pi,,\Pi,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         \Pi \gg ,,\Pi \gg ,,\Pi \gg ,,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    \Pi \gg , \Pi \gg 
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## Список литературы

- 1. Holtsmark J. // Ann. Phys. 58 (1919), 577.
- 2. Demura A.V. // Int. J. Spectrosc. 2010 (2010), Article ID 671073, 42 P. doi: 10.1155/2010/671073.
- 3. Ecker G. // Z. Phys. 148:5 (1957), 593.
- 4. Ecker G., Müller K.G. // Z. Phys. 153:3 (1958), 317.
- 5. Baranger M., Mozer B. // Phys. Rev. 115:3 (1959), 521.
- 6. Mozer B., Baranger M. // Phys. Rev. 118:3 (1960), 626.
- 7. Hooper C.F., Jr. // Phys. Rev. 149:1 (1966), 77.
- 8. Hooper C.F., Jr. // Phys. Rev. 165:1 (1968), 215.
- 9. Hooper C.F., Jr. // Phys. Rev. 169:1 (1968), 193.
- 10. Iglesias C.A. et al.// Phys. Rev. A. 28:3 (1983), 1667.
- 11. Iglesias C.A., Lebowitz J.T. // Phys. Rev. A. 30 (1984), 2001.
- 12. Iglesias C.A. et al. // Phys. Rev. A. 31 (1985), 1698.
- 13. Dufty J.W. et al. // Phys. Rev. A. 31 (1985), 1681.
- 14. Iglesias C.A. et al. // J. Quant. Spectrosc. Radiat. Transf. 65:1-3 (2000), 303.

- 17. Chandrasekhar S., von Neuman J. // Astrophys. J. 95 (1942), 489.
- 18. Chandrasekhar S., von Neuman J. // Astrophys. J. 97 (1943), 1.
- 19. Chandrasekhar S. // Rev. Modern Phys. 15:1 (1943), 1.

- 22. Demura A.V., Sholin G.V. // J. Quant. Spectrosc. Radiat. Transf. 15 (1975), 881.
- 23.  $\Pi$ », $\Pi$ », $\Pi$ », $\Pi$ », $\Pi$ », $\Pi$ »,  $\Pi \gg , ... \Pi \gg , ,..$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,$  $\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg$  $\Pi \gg ,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,...$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$  $\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,\Pi > ,,$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,.$  $\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,\Pi \gg ,,..$  $\Pi \gg_{,,\Pi} \gg_{,\Pi} \gg_{,\Pi$  $\Pi \gg_{11} + \Pi \gg_{11} + \Pi \gg_{11} + \Pi \gg_{11} + \Pi \gg_{12} + \Pi \gg_{13} + \Pi \gg_{14} + \Pi \gg_{14}$ 1976, 176 m»,...
- 25. Demura A.V., Stehle C. // AIP Conference Proceedings. 328 (1995), 177.
- 26. Demura A.V. et al. // J. Quant. Spectrosc. Radiat. Transf. 54 (1995), 123.
- 27. Demura A.V. et al. // AIP Conference Proceedings. 645 (2002), 318.
- 28. Djurovič S. et al. // Phys. Rev. E. 71 (2005), 036407.
- 29. Demura A.V. et al. // Eur. Phys. J. D. 46 (2008), 111.

- 31. Bohm D., Pines D. // Phys. Rev. 85 (1952), 338.
- 32. Bohm D., Pines D. // Phys. Rev. 92 (1953), 609.
- 33. Broyles A.A. // Phys. Rev. 100:4 (1955), 1181.
- 34. Broyles A.A. // Z. Phys. 151 (1958), 187.
- 35. Dharma-Wardana M.W.C., Perrot F. // Phys. Rev. A. 33:5 (1986), 3303.
- 36. Perrot F., Dharma-Wardana M.W.C. // Phys. Rev. A. 41:6 (1991), 3281.
- 37. Hohenberg P., Kohn W. // Phys. Rev. B. 136:3 (1964), B864.
- 38. Kohn W., Sham L.J. // Phys. Rev. A. 140:4 (1965), A1133.
- 39. Perrot F., Dharma-Wardana M.W.C. // Phys. Rev. A. 30:5 (1984), 2619.
- 40. Perrot F., Dharma-Wardana M.W.C. // Phys. Rev. A. 31:2 (1985), 970.
- 41. Chihara J. // Phys. Rev. A. 44:2 (1991), 1247.
- 42. Massacrier G. // J. Quant. Spectros. Radiat. Transf. 51:1-2 (1994), 221.
- 43. Singh R., Deb B.M. // Phys. Rep. 311:2 (1999), 47.
- 44. Kohn W. // Rev. Modern Phys. 71:5 (1999), 1253.
- 45. Gilles D., Angelie A. // Ann. Phys.-Paris. 11:3 (1986), suppl. 3, 157.
- 46. Caillol J.M., Gilles D. // J. Stat. Phys. 100:5-6 (2000), 933.
- 47. Gilles D. Calcul de la repartition statistique du microchamp electrique dans les plasmas // Internal CEA-Report, 1997.
- 48. Gilles D. Mèthode de Monte-Carlo en Mècanique Statistique Appliquèe á la Physique des Plasmas, Laboratoire de Physique des Gaz et des Plasmas, Université Paris XI, Lecture Notes, Orsay, France, 1997.
- 49. Potekhin A.Y. et al. // Phys. Rev. E. 65:3 (2002), Article ID 036412.
- 50. Brush S.G. et al. // J. Chem. Phys. 45:6 (1966), 2102.

- 52. Acioli P.H. // J. Molec. Structure. 394:2-3 (1997), 75.

- 57. Zaid I., Mizuno D. // Phys. Rev. Lett. 117 (2016), 030602.
- 59. Kalitkin N.N., Kozlitin I.A. // Ann. Phys. 396 (2018), 468.
- 60. Delamater N.D. et al. // Phys. Rev. A. 31:4 (1985), 2460.
- 61. Hooper C.F., Jr. et. al. // SPIE. High intensity laser-matter interactions. 913 (1988), 129.
- 62. Hooper C.F., Jr. et al. // J. Quant. Spectrosc. Radiat. Transfer. 44:1 (1990), 19.
- 63. Haynes D.A., Jr. et al. // Rev. Sci. Instruments. 66 (1995), 755.
- 64. Florido R. et al. // Rev. Sci. Instruments. 79 (2008), 10E310.
- 65. Florido R. et al. // Phys. Plasmas. 21 (2014), 102709.
- 66. Burris-Mog T.J. et al. // J. Quant. Spectrosc. Radiat. Transfer. 99 (2006), 120.
- 67. Sinars D.B. et al. // J. Quant. Spectrosc. Radiat. Transfer. 99 (2006), 595.
- 68. Fournier K.B. et al. // J. Quant. Spectrosc. Radiat. Transfer. 71 (2001), 339.
- 69. Chambers D.M. et al. // Phys. Rev. E. 66 (2002), 026410.

- 70. Hakel P. et al. // Phys. Plasmas. 21 (2014), 063306.
- 71. Bitter M. et al. // Phys. Rev. A. 29:2 (1984), 661.
- 72. Goryaev F.F. et al. // JETP Letters. 78:6 (2003), 363.
- 73. Demura A. // MDPI Atoms. 2018. Vol. 6. P. 33.
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