

Hamiltonian analysis of novel Poincaré gauge theories: promising cases

W.E.V. Barker,^{1,2,*} A.N. Lasenby,^{1,2,†} M.P. Hobson,^{1,‡} and W.J. Handley^{1,2,§}

¹*Astrophysics Group, Cavendish Laboratory, JJ Thomson Avenue, Cambridge CB3 0HE, UK*

²*Kavli Institute for Cosmology, Madingley Road, Cambridge CB3 0HA, UK*

PACS numbers: 04.50.Kd, 04.60.-m, 04.20.Fy, 98.80.-k, 90.80.Es

I. INTRODUCTION

$$L_T = \hat{\alpha}_I \mathcal{R}^a{}_{bcd} {}^I \mathcal{P}_a{}^i{}_{jkl} \mathcal{R}^i{}_{jkl} + m_p {}^2 \hat{\beta}_I \mathcal{T}^a{}_{bc} {}^I \mathcal{P}_a{}^i{}_{jk} \mathcal{T}^i{}_{jk} + L_m \quad (1)$$

ACKNOWLEDGMENTS

* wb263@cam.ac.uk
† a.n.lasenby@mrao.cam.ac.uk
‡ mph@mrao.cam.ac.uk

§ wh260@cam.ac.uk