| Starting with equation (2) in the E.Bumn paper |
|--|
| $Q_{2m}(\vec{r}) = \int d^3k \Delta_2(k;r) \delta_{\bar{z}}(\vec{k}) e^{i\vec{k}\cdot\vec{r}} \zeta_m^{\dagger}(\vec{k}') \qquad (2)$ |
| using the plane wave expansion: |
| using the plane wave expansion: $e^{i\vec{k}\cdot\hat{r}} = 4\pi \sum_{m=1}^{\infty} \hat{\Sigma}_{i} \hat{z}^{k} j_{i} ckr) T_{im}(\hat{r})$ |
| equestion and bosomes |
| asm (F) = \\ \k^2 dk \sino dodp \D_2 Ck; \r) \Sick; \r) \Hz \frac{\frac{1}{2}}{2} \frac{1}{2} \ckr) \Tem (\hat{k}) \Tem (\hat{k}) \Tem (\hat{k}) \Tem (\hat{k}) \Tem (\hat{k}) |
| $\int d\mathbf{k} \operatorname{Tem}(\hat{\mathbf{r}}) \operatorname{Tem}(\hat{\mathbf{r}}') = \delta \mathbf{l} \mathbf{r} $ |
| = 42 = 5 = Tem cf) d3k D=Ckir) Sockir) Tun Ck) You Ck) |
| = Jk2 dk D2Ck;r) SICk;r) · Jd I Tum Ck) Yam Ck) |
| = 42 (2/41) · Sl2 |
| $= -\frac{16\pi^2}{E} \sum_{k=0}^{\infty} (\hat{r}) \cdot \int k^2 dk \Delta_2(k;r) \delta_{\Phi}(k;r)$ |
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