

estimators

$$q^{XY}(L) = 1/2 \int d^2 l_X \int d^2 l_Y W^{XY}(l_X, l_Y, L) \bar{X}(l_X) \bar{Y}(l_Y) \quad (1)$$

for full-sky estimator calculation:

$$W^{XY} = \sum_{i=0}^{N_i} \int d^2 n_s^{i,X} Y_{l_X m_X}(n) W^{i,X}(l_X) *_{s}^{i,Y} Y_{l_Y m_Y}(n) W^{i,Y}(l_Y) *_{s}^{i,L} Y_{LM}(n) W_{i,L}(L) (2)$$