

Homework 3

Evaluate the surface integral

$$\int_{S_\infty^2} \epsilon^{ijk} \epsilon^{abc} \hat{x}^a \partial^j \hat{x}^b \partial^k \hat{x}^c dS^i \quad (\hat{x}^a \hat{x}^a = 1)$$

that enters the calculation of the magnetic charge of the 't Hooft - Polyakov monopole solution.