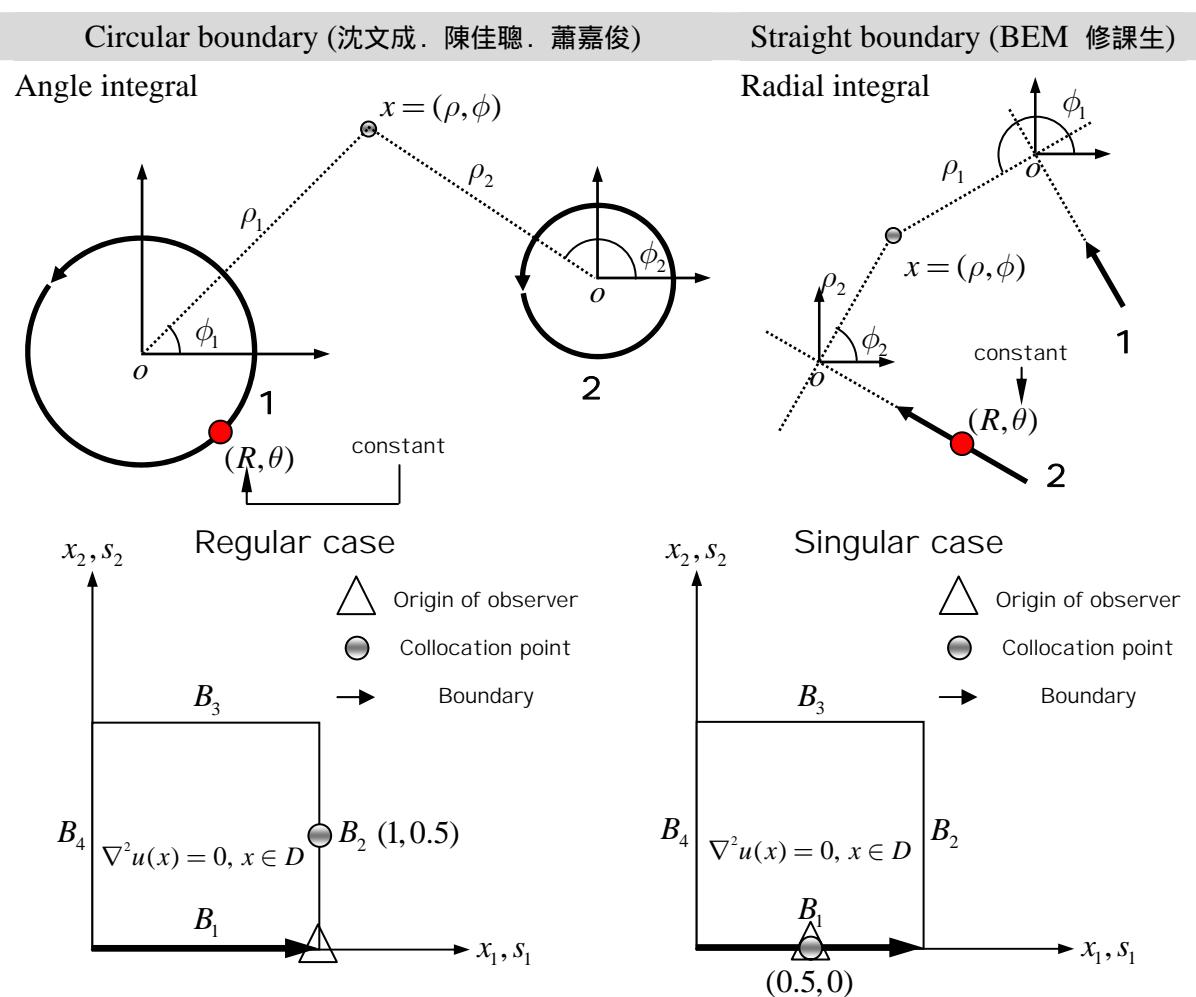


Adaptive observer system



The U kernel function can be expanded into degenerate form as follows:

$$U(s, x) = \begin{cases} U^i(R, \theta; \rho, \phi) = \ln R - \sum_{m=1}^{\infty} \frac{1}{m} \left(\frac{\rho}{R}\right)^m \cos m(\theta - \phi), & R > \rho \\ U^e(R, \theta; \rho, \phi) = \ln \rho - \sum_{m=1}^{\infty} \frac{1}{m} \left(\frac{R}{\rho}\right)^m \cos m(\theta - \phi), & \rho > R \end{cases}$$

Please plot the boundary integrals of U , T , L , M kernels for constant boundary density versus number of terms.

