

$$L1\left(\frac{1}{\beta}+1\right)f''' - A\left(f' + \frac{\eta}{2}f''\right) + ff'' - f'^2 - L2Mf' - \frac{L1}{Da}\left(\frac{1}{\beta}+1\right)f' = 0 \quad (9)$$

$$\theta''(1 + L3PrNr) + PrL4\left(f\theta' - f'\theta + A\left(\theta + \frac{\eta}{2}\theta'\right)\right) - 9(f^2\theta'' + ff'\theta') = 0 \quad (10)$$

The corresponding boundary conditions are

$$f(0) = S, \quad f'(0) = 1 + \gamma L5f''(0), \quad \theta'(0) = -Bi(1 - \theta(0)) \quad (11)$$

$$f'(\eta) \rightarrow 0, \theta(\eta) \rightarrow 0 \text{ as } \eta \rightarrow \infty$$