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$$\frac{d^{2}S}{dr^{2}} + \frac{dS}{dr} * \frac{2}{r} - \phi^{2} * \frac{\beta * S}{\beta + S} = 0$$

En r=0

$$\frac{d^2S}{dr^2} = \frac{\phi^2}{3} * \frac{\beta * S}{\beta + S}$$