

Regime I	Regime II	Regime III
$h(0, t) = 1, h_x(0, t) = 0$		
$[h]_{x_{\pm}}^{x_{\pm}^+} = [h_x]_{x_{\pm}}^{x_{\pm}^+} = [h_{xx}]_{x_{\pm}}^{x_{\pm}^+} = [h_{xxx}]_{x_{\pm}}^{x_{\pm}^+} = 0$		
$p(x_{\pm}, t) = h_{xxxx}(x_{\pm}, t) = -\nu/h(x_{\pm}, t)$		
$h_{xxx}(1, t) = 0$		
	$h_{xx}(1, t) = 0$	$h_{xx}(x_c, t) = 0$
	$h(1, t) = 0$	$h(x_c \leq x \leq 1, t) = 0$
		$h_x(x_c, t) = 0$