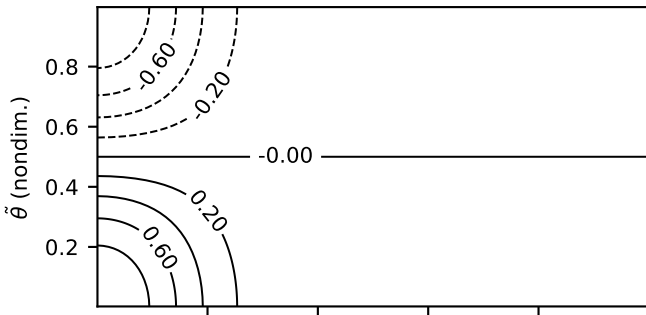
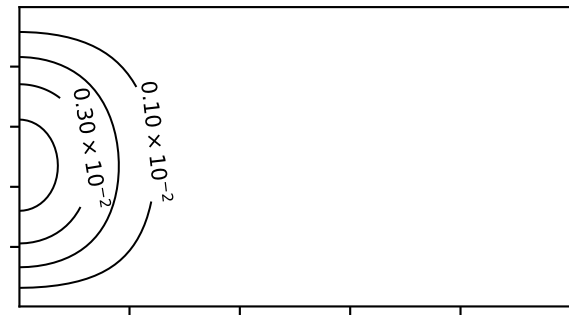
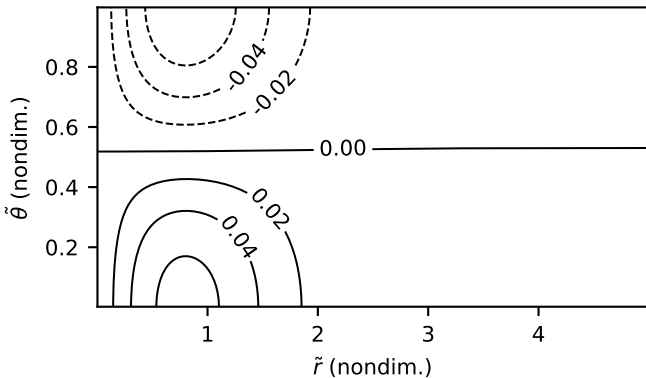


(a)  $\tilde{P}'_{heat}$ (b)  $\tilde{P}'_{mass}$ (c)  $\tilde{V}'_{heat}$ (d)  $\tilde{V}'_{mass}$ 