RNS streak description  CARLOS MARTEL, JUAN ANGEL MARTIN, 
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duced Navier-Stokes (RNS) equations for the simulation of the nonlinear evolution 
of streaks in a flat plate boundary layer. The RNS are asymptotically derived from 
the Navier Stokes equations for $Re \gg 1$, and they are appropriated for flow con-
figurations with one slow scale and two short scales. We derive the RNS with the 
appropriate boundary conditions for the simulation of the spatially growing streaks, 
comment the details of the numerical method used, and compare our 3D streak 
simulations with the results present in the literature. The presented RNS scheme 
for computing nonlinear streaks is much faster than full 3D DNS computations, 
and does not exhibit the numerical instabilities present in previous nonlinear PSE 
calculations.

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