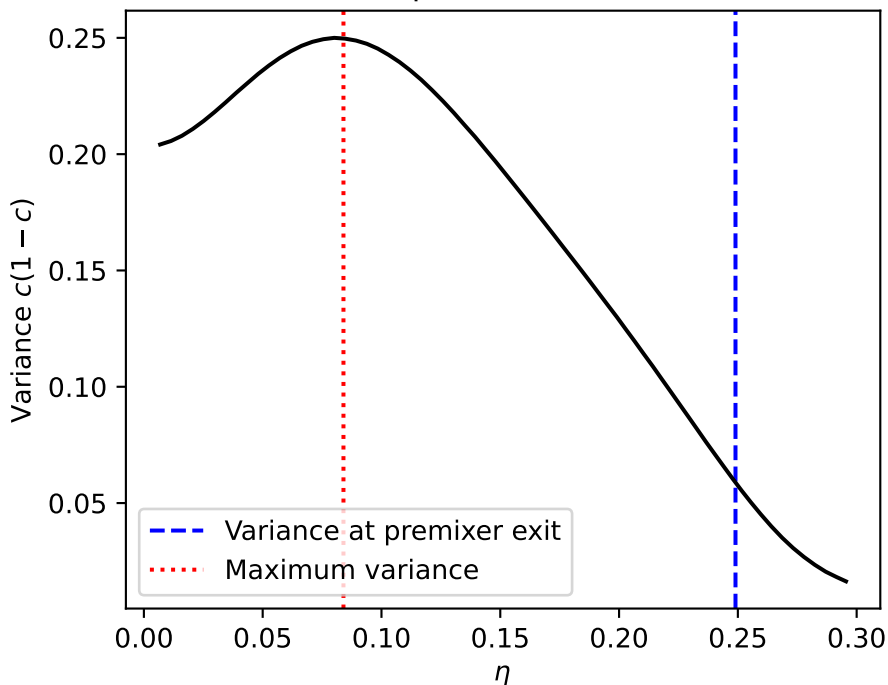**Input: Variance**

Variance $c(1-c)$ vs η

- - - Variance at premixer exit
· · · · Maximum variance

Output: Mass Fraction

Mass Fraction Y_{CH_4} vs Axial Distance [m]

- - - Premixer exit (L)
· · · · x fuel injection