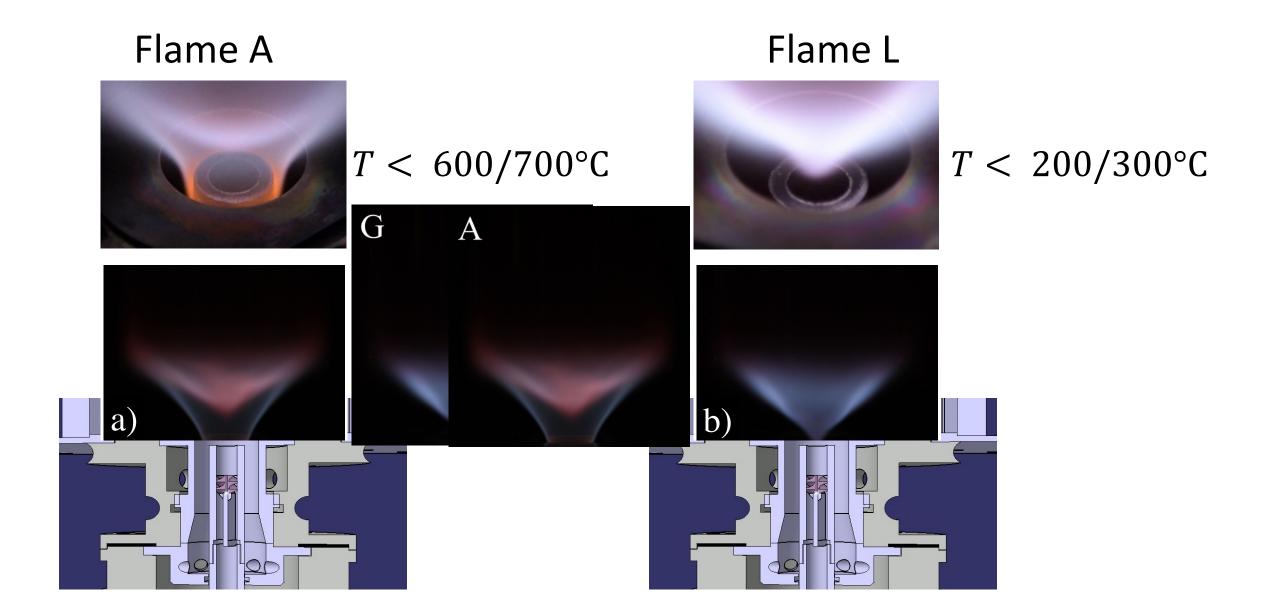
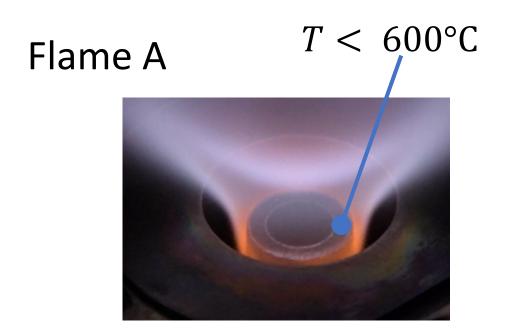
# HYLON TNF: hydrogen lips temperatures

## Two stabilization regimes



### Two stabilization regimes



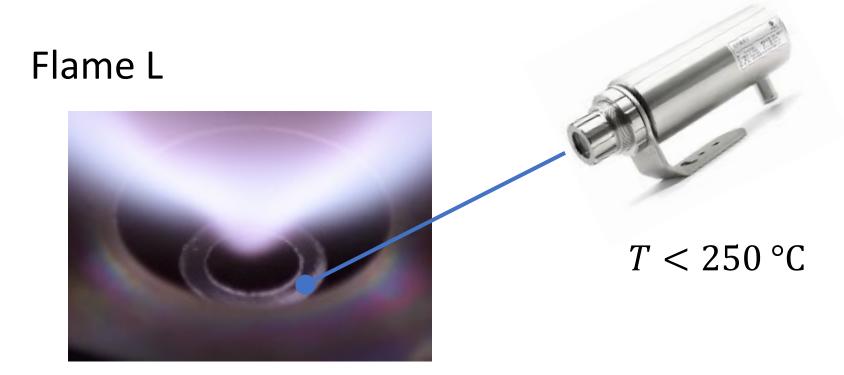
This value corresponds to an upper limit that is far from being reached. The temperature is probbaly much below 600°C because:

- $u_{H2} = 13.5 \text{ m/s}$  injected at Tu=293 K
- $cp_H2 = 14500 J/kg/K$

Our guess based on



#### Two stabilization regimes



This value corresponds to an upper limit that is far from being reached. The temperature is probbaly much below 250°C because:

- $u_{H2} = 34$  m/s is large injected at Tu=293 K ( $u_a$ =28 m/s)
- $cp_{H2} = 14500 J/kg/K$ ,

Lip temperature barely exceeds T~ 300 K

#### Conlusion

Hydorgen temperature lip will be measured for Flame A and Flame L and added to TNF database