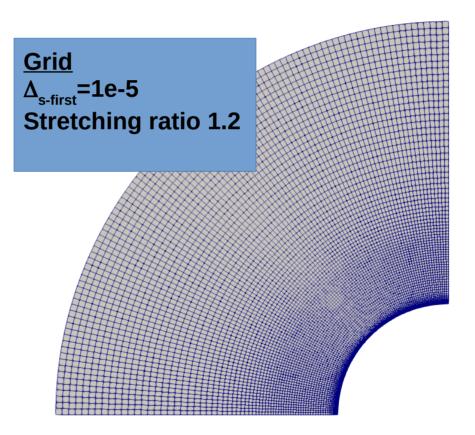
## Wall flux computation issue Hemisphere

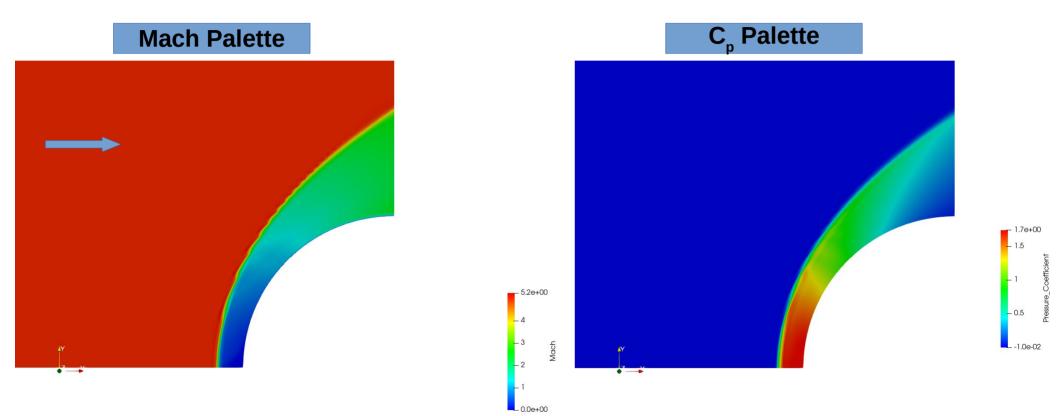
Simulation conditions M=5.0  $T_{inf} = 212 \text{ K}$   $T_w = 212 \text{ K}$ Re = 2.193946E+05 Axisymmetric simulation

Laminar flow simulation

SLAU2 convective numerical scheme

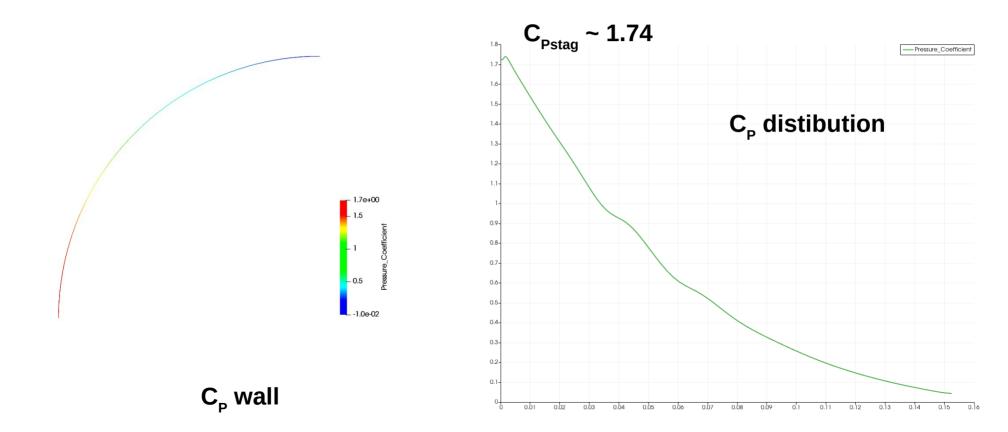
Reference: JAXA-RR-05-001E Page No. 22-23





Both look good

## $\mathbf{C}_{\mathbf{p}}$ distribution



## Heat flux distribution

h<sub>f-stag</sub> unphysical dip and nearby peak value is <6 w/cm<sup>2</sup> It should be around 10.6 w/cm<sup>2</sup> Changing Convective numerical scheme did not help

