

# Summary of possible processes to be studied

Vibrational excitation of H<sub>2</sub>, state to state.

Electron-impact ionization of H<sub>2</sub>.

Dissociative ionization of HeH<sup>+</sup> :



Formation of HeH<sup>+</sup> ? Xavier has addressed this.



Cross sections have been measured.

# Summary of possible processes to be studied

How is  $\text{He}_2^+$  formed? Xavier has addressed this.

Vibrational excitation, dissociative ionization of  $\text{He}_2^+$ ?

## **The $\text{H}^-$ beam:**

Cross sections are needed for  $\text{H}^- + \text{H}_2 \rightarrow \text{H} + \text{H}_2 + e^-$  .

Cross sections for  $\text{H}^- + \text{H}_2^+ \rightarrow \text{H} + \text{H}_2$  .