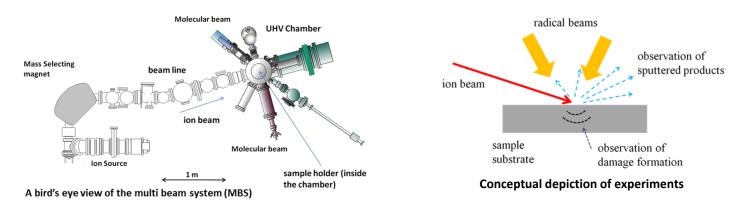
## Ion beam studies on plasma-surface interactions

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• Ion beam and molecular dynamics (MD) simulation studies have been conducted for the measurements of sputtering yields relevant for non-traditional CMOS structures



## Conclusions

- Sputtering yields of vertical incidence of Cl+, Br+, HBr+, Ar+, and Kr+ ions as functions of incident energy have been obtained.
- At 300eV injections, Si are removed as Si or SiCl (or SiBr). SiCl2 (SiBr2) signals are less than the detectable levels.
- TEM images of 500eV Br+ and H+ ion shows damage formation in Si.