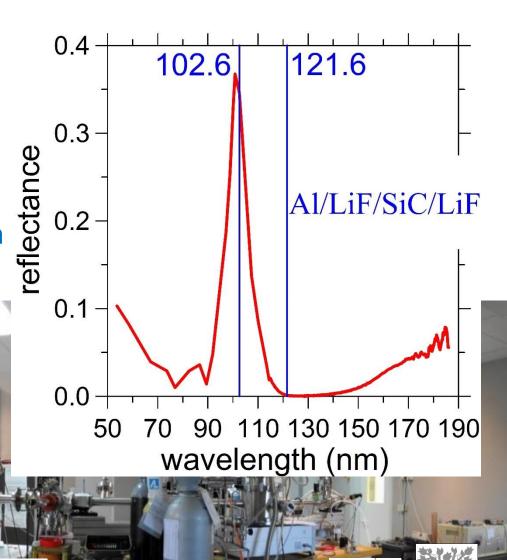
Improved broadband and narrowband far UV coatings Juan Larruquert, GOLD-Instituto de Óptica, CSIC, Madrid j.larruquert@csic.es

✓ FUV&EUV coatings for space applications ✓ Evaporation &Ion-beam-sputtering _{0.8} Peak can be selected at any Reflectance λ≥120 nm 0.6 0.4 0.2 -Coatings based on MLs 0.0 - 0.0with two fluorides 140 160 180 120 200 wavelength (nm)

Narrowband FUV coatings

First narrowband coatings peaked close to:

- H Lyβ, 102.6 nm
- O VI, 103.2, 103.8 nm
- Strong rejection@ 121.6 nm



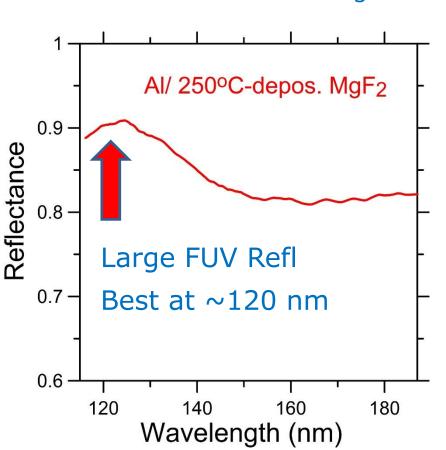
In-house reflectometer covering 40-200 nm

Improved Al mirrors

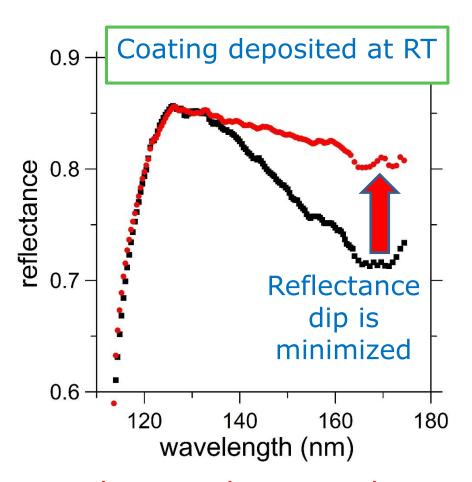
Al coated with:



or hot deposited AIF₃



Engineered Al/MgF₂ coating



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