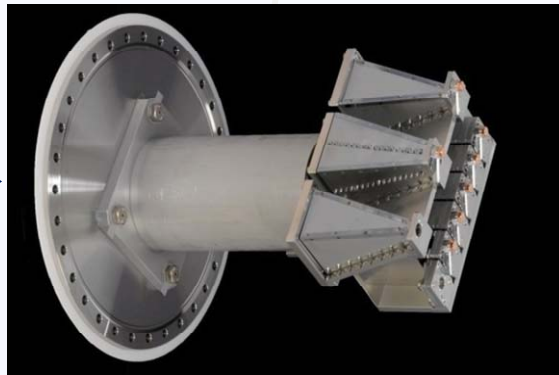


Reflectivity of ITER mirrors will degrade due to impurity deposition

## How to get rid of contamination of diagnostic mirrors in ITER?

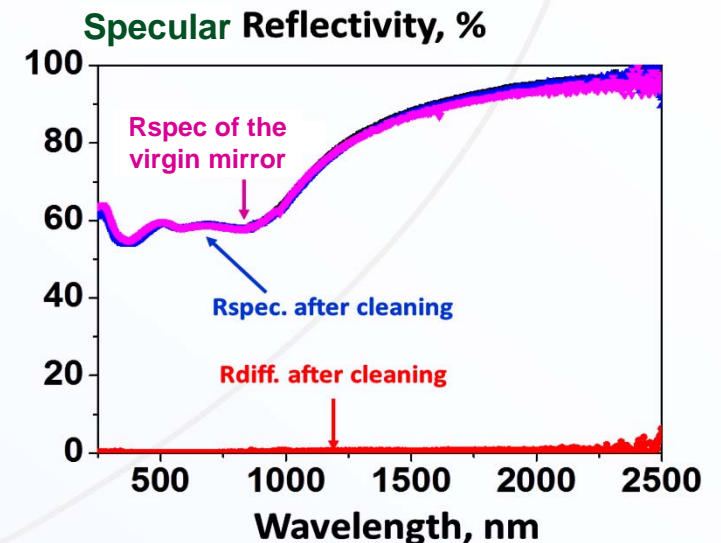
Shape of diagnostic duct and fins in the duct may suppress the deposition

Mirror Station for TEXTOR



- ❖ Mirror Station: system of ducts with mirrors at their end;
- ❖ Manufactured to study suppression of deposition;
- ❖ Exposed in TEXTOR for four months;
- ❖ **Ducts with fins – no positive effect;**
- ❖ **Cone-shaped ducts: no deposition;**
- ❖ Mirror Stations in DIII-D and in ASDEX Upgrade: analyses ongoing.

Cleaning of the mirrors using sputtering plasma



- ❖ Single crystal molybdenum mirror;
- ❖ Pre-coated with 100 nm aluminum to simulate beryllium deposition;
- ❖ Cleaned in electron-cyclotron helium plasma for nine hours;
- ❖ **Specular reflectivity fully recovered.**