Stabilization of polar Mn_3O_4(001) film on Ag(001): Interplay between kinetic and structural stability

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Highlights

- Growth of well-ordered Mn3O4(001) film on Ag(001).
- Polar Mn3O4(001) surface is stabilized through surface reconstructions.
- Evidence of interplay between kinetic and structural stability of Mn3O4(001) film.
- Probe the surface structural phase-space of Mn3O4(001) film by LEED and XPS.