Sr2RuO4\_EXP\_Monolayer\_*<x>*deg\_socrenorm.dat

Sr2RuO4\_EXP\_Monolayer\_*<x>*theta\_0phi1\_0phi2\_hr\_sym\_soc\_nem.dat

Sr2RuO4\_EXP\_Monolayer\_*<x>*theta\_0phi1\_0phi2\_hr\_sym\_soc\_nem2.dat

Tight-binding models for angle *<x>*. \_soc with spin-orbit coupling of 0.175, \_soc\_nem and \_soc\_nem2 are with spin-orbit coupling of 0.175, renormalized by 0.2444 and nematicity. \_soc\_nem has a nematicity of 0.5% applied to all orbitals, \_soc\_nem2 with 8.5% on dxz/yz.

For the \_soc models with <x> larger zero, the chemical potential has been set to be in the centre for the SOC gap.