Candice Forrester et al., *Effect of molecular beam epitaxy (MBE) growth parameters on the structural and magnetic properties of high Curie temperature $(MnSb_2Te_4)_x(Sb_2Te_3)_{1-x}$ magnetic topological insulators*

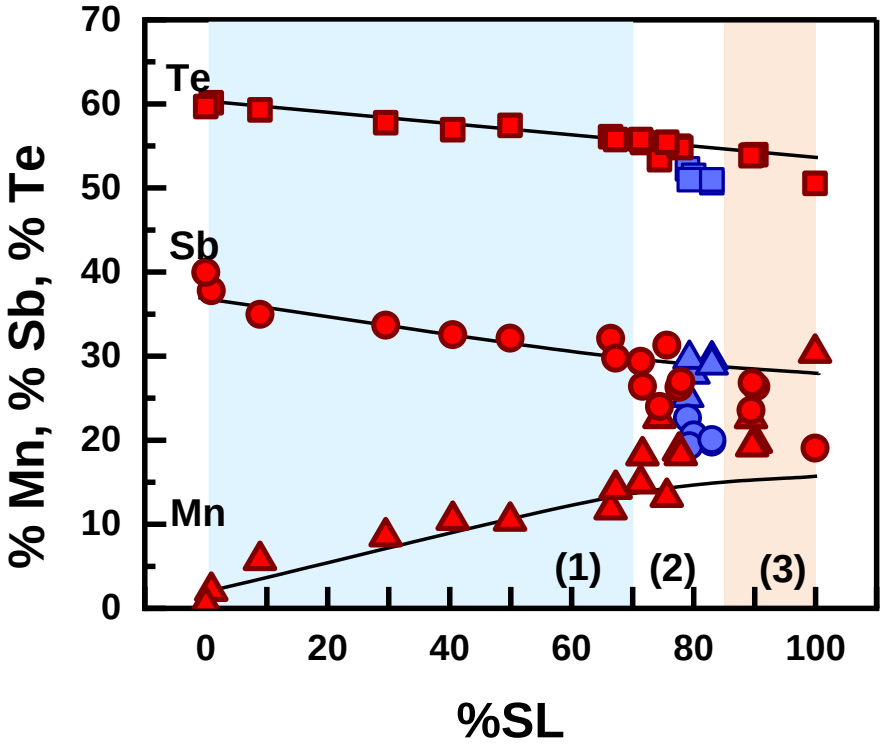

Figure 1: Energy Dispersion X-Ray Spectroscopy (EDS) study exploring the elemental contribution of Mn, Sb and Te to the crystal structure as a function of percent of septuple layers. The black lines represent stochiometric $(MnSb_2Te_4)_x(Sb_2Te_3)_{1-x}$. For $(MnSb_2Te_4)_x(Sb_2Te_3)_{1-x}$ samples with $0.7 < x < 0.85$ and grown with a **fast GR (red)**, Mn and Sb intermixing was observed. However for samples $(MnSb_2Te_4)_x(Sb_2Te_3)_{1-x}$ samples with $0.7 < x < 0.85$ and grown with a **slow GR (blue),** not only, showed increased Sb and Mn intermixing, but also, some Mn and Te intermixing.