

Figure 1: a) Band structure across a κ - $(In_{0.3}Ga_{0.7})_2O_3/\kappa$ - $(Al_{0.14}Ga_{0.86})_2O_3$ interface, based on preliminary work. [Ref: Y.K. Hommedal. Master Thesis, Department of Physics, University of Oslo (2021), available at https://www.duo.uio.no/handle/10852/86984] b) Schematic representation of the sample geometry (not to scale). Since the outer surface may be vulnerable upon (S)TEM sample preparation, the two layers designed for XPS is repeated in a stack, to enable both XPS/HAXPES and (S)TEM investigation of the same sample. c) HAADF TEM image of previously investigated "stack" sample.