

Fig.1: (A) InAs/GaSb and (B) InAs/InAsSb HR-XRD with sample design inlay in top right-hand corner. XRD shows high quality growth that closely matches simulated response demonstrating successful MBE growth of each sample.

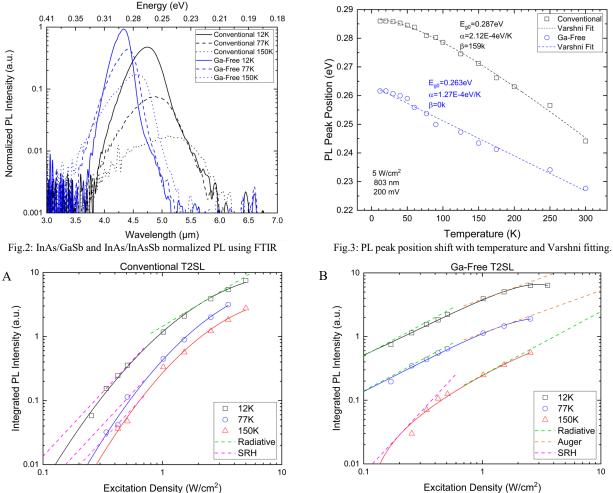


Fig.4: (A) InAs/GaSb and (B) InAs/InAsSb integrated PL intensity vs. excitation-density with tangent lines indicating dominate recombination. [1] C.H. Grein, et al., in: Proc. on the 3rd Int. Symp. on LWIR Det. and Arrays: Phys. and Appl. III, 1995, p. 211.

[2] D. O. Alshahrani, Adv. Photonics Res. 3, 2100094 (2022)

[3] E. H. Steenbergen, et al. Journal of Luminescence 178, 451-456 (2016)

[4] A. D. Prins, et al. Appl. Phys. Lett. 106, 171111 (2015)