



Contribution ID: 745

Type: **Poster**

Crystallinity Properties of Ternary III-Oxide Alloys

Tuesday 13 December 2022 18:45 (15 minutes)

In this work, DFT analysis is employed to study the structural evolution of ternary III-oxides, such as $(\text{In}_x\text{Al}_{1-x})_2\text{O}_3$, $(\text{Al}_y\text{Ga}_{1-y})_2\text{O}_3$, and $(\text{Ga}_z\text{In}_{1-z})_2\text{O}_3$, determining the compositions at which phase transitions occur and important physical parameters.

Primary author: Dr GOODRICH, Justin (Brookhaven National Laboratory,)

Co-authors: Dr FU, Hanlin (Lumileds LLC); Dr TANSU, Nelson (The University of Adelaide)

Presenter: Dr GOODRICH, Justin (Brookhaven National Laboratory,)

Session Classification: Poster session

Track Classification: COMMAD: COMMAD: Semiconductor materials, devices, and technologies