

SAIP2013



Contribution ID : 556

Annihilation of Positrons with High Momentum states in Lithium Fluoride using Local Density Approximation and Generalized Gradient Approximation

Tuesday 09 Jul 2013 at 17:40 (01h00')

Abstract :

High momentum components of electron-positron annihilation radiation in ionic lithium fluoride are obtained via annihilation of positrons with core electrons. The ratios of annihilation probabilities for various electronic levels as a function of momentum are calculated within the local density approximation (LDA) and generalized gradient approximation (GGA). Annihilation rates associated with defects and in the bulk are also calculated

Award :

No

Paper :

Yes

Primary authors : Mr. JILI, Thulani (University of Zululand)

Co-authors : Mrs. BUTHELEZI, Tsepiso (University of Zululand) ; Prof. SIDERAS-HADDAD, Elias (University of the Witwatersrand) ; Dr. WAMWANGI, Daniel (University of the Witwatersrand)

Presenter : Mr. JILI, Thulani (University of Zululand)

Session classification : Poster1

Track classification : Track A - Division for Condensed Matter Physics and Materials

Type : Poster Presentation