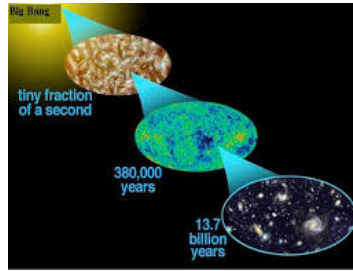


## International WORKSHOP on “Emerging trends in High Energy and Condensed matter Physics”



Contribution ID : 30

Type : not specified

### **Fano factor & Conductivity in the confined region of the potential well**

*вторник, 12 января 2021 г. 17:15 (20)*

Transport properties in the confined region of the potential well have been calculated. It has been shown here that edge states or surface states occur in this particular system. Tight binding Green function along with Bloch's theorem used here to calculate the transport properties. Transmission occurs in the form of plateaus and shows the metallic behavior. Fano factor has been calculated in this system. Conductivity is also calculated for this particular system

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