

**Seminarium Astrofizyczne**  
wtorek 05.03.2019 godz. 12:30  
ul. Pasteura 7, sala 404

**Paritosh Verma**

(NCBJ)

### **Gravitational waves in the Jordan-Brans-Dicke theory**

I shall talk about gravitational waves in Jordan Brans Dicke (JBD) theory. There are two tensor polarization states in the General theory of relativity but there can also be vector and scalar polarization states in alternative theories of gravity. The JBD theory is one of the attempts to modify general theory of relativity by varying gravitational constant  $G$  and it has three polarization states. The first two states are the same as in GR and the third one is the scalar polarization.

Serdecznie zapraszam,  
Agnieszka Majczyna