



Contribution ID: 11

Type: **Talk**

## Gravitational waves over arbitrary background

*Tuesday 6 September 2022 09:30 (30 minutes)*

Equations describing gravitational wave propagation over arbitrary curved space-time are derived. Some new terms absent in the FLRW background are obtained and their possible observational consequences are discussed.

The process of graviton-photon transformation in external magnetic field in the early universe are considered.

### Is this abstract from experiment?

No

### Name of experiment and experimental site

N/A

### Is the speaker for that presentation defined?

Yes

### Details

Alexander Dolgov, NSU and JINR

### Internet talk

No

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**Session Classification:** Cosmology, Astrophysics, Gravity, Mathematical Physics