

Institut Ruđer Bošković
ZAVOD ZA TEORIJSKU FIZIKU
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ZAGREB, HRVATSKA

SEMINAR ZAVODA ZA TEORIJSKU FIZIKU

(Zajednički seminari Zavoda za teorijsku fiziku,
Zavoda za eksperimentalnu fiziku IRB-a i Fizičkog odsjeka PMF-a)

**Peering through the Galactic mist towards the first stars in
the Universe**

Vibor Jelić

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Abstract:

With the novel world-leading radio telescope LOFAR (the Low Frequency Array), astronomers are expected to detect the cosmological radiation emitted billions of years ago, from the time of the first stars. However, detection of this weak emission is difficult. Synchrotron emission from our own Galaxy intervenes, like mist on an autumn morning. To clear the view towards the early childhood of the Universe, we need to study the emission from our Galaxy in great detail. During my talk I will give an overview of the LOFAR-EoR key science project, its challenges and present its most recent results.

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