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Particle production in the expanding universe

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It is known that time-dependent vacuum expectation value of the background field causes the production of particles, in the expanding universe this process is also influenced by the time-dependence of the scale factor. Poster would present the general mechanism of particle production in time-varying backgrounds with the impact of rescattering emphasised, also in models with more than one coupling constant. Cosmological applications of this general method shall be presented.

Presenter: CZERWINSKA, Olga (University of Warsaw, Poland)

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