

Contribution ID: **3962** Type: **Poster Competition (Graduate Student)** / **Compétition affiches (Étudiant(e) 2e ou 3e cycle)**

(G*) (POS-3) Non-linear Integrated Sachs-Wolfe effect

Tuesday 20 June 2023 17:32 (2 minutes)

Using quantum field theory, we calculate the total effect on the photon flux in the microwave background due to some photons being gravitationally scattered toward us and others being gravitationally scattered away from us. The scattering is produced by the density fluctuations which act like point masses in a FLRW background, which can be of either sign. The net effect of having masses of either sign is to give a Debye screening of the graviton.

Keyword-1

Sachs-Wolfe effect

Keyword-2

Gravitational scattering

Keyword-3

Authors: PARANJAPE, Manu (Université de Montréal); FORGET, Thomas (Université de Montréal)

Presenter: FORGET, Thomas (Université de Montréal)

Session Classification: PPD Poster Session & Student Poster Competition (6) | Session d'affiches PPD et concours d'affiches étudiantes (6)

Track Classification: Technical Sessions / Sessions techniques: Particle Physics / Physique des particules (PPD)