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Electron-positron pair creation in electrosphere of compact astrophysical objects

Tuesday 8 October 2024 12:05 (20 minutes)

We will discuss pair creation by electrically neutral compact astrophysical objects, having sufficiently sharp positively charged surface boundary to create an electrosphere with overcritical electric field. Two types of energy sources will be considered: heat and radial electromagnetic perturbation. Implications for astrophysical observations will be outlined.

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