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Summarization on Circumgalactic Medium, methods of studying it and building a theoretical framework (12+3)

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Circumgalactic medium (CGM) has many similarities with interstellar and intergalactic medium yet there are still many questions regarding its nature, inner motion, and interaction with other media. This work is summarizing the general theoretical background of CGM, listing currently available research methods, including computer modeling, and giving a kick-start for future analysis. The main topic will be observations of Milky Way CGM specifically, its inflows and outflows, evolution, temperature and density distribution, multiphase nature. Most of the information was gathered from the 2020 “Fundamentals of Gaseous Halos (HALO21) - KITP” conference.

Author: Mr AKHMETSHYN, Roman (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

Presenter: Mr AKHMETSHYN, Roman (Taras Shevchenko National University of Kyiv, Kyiv, Ukraine)

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