



Contribution ID: 255

Type: **Invited/Solicited talk in mini-symposium**

UV Explorers for Cosmic Ecosystems in China

Thursday, 14 December 2023 14:45 (20 minutes)

For Cosmic Ecosystems, mapping the circumgalactic medium (CGM) in emission is one of the important scientific goals for astronomers to either use the modern ground-based telescopes or the future space missions. CGMs are multi-phases, key to understand the galaxy ecosystem and its accretion and feedback. In this talk, I will briefly introduce a few scientific projects in our group for the efforts in the warm and hot diffuse emission in nearby universe. In addition, I will introduce and summarize the developments of our proposed space missions for mapping CGMs in Lyman UV emission. One is the small UV explorer CAFE (Census of WHIM, Accretion and Feedback Explorer) and the independent external payload LyRIC (Lyman UV Radiation from ISM and CGM) operating on the Chinese Space Station. In the end, I will highlight the prospects in CGM fields based on the existing and future facilities in China.

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Session Classification: High-E Missions...