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Mapping CGMs in the Nearby Universe

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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 introduce a few scientific projects in our group for the efforts in the warm and hot diffuse emission in nearby universe with high spectral resolution data from UV and X-ray. In addition, I will highlight the prospects in CGM fields based on the existing and future facilities (such as SMILE, CSST, HUBS, CAFÉ etc.) in China.

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