東北大学　宇宙創成物理学国際共同大学院プログラム

GP-PU (Graduate Program on Physics for the Universe）Seminar

“Stellar chemical compositions to constrain nucleosynthesis and chemical evolution of the universe”

by Wako Aoki (NAOJ)

Time and Date: 15:00-17:00, Dec 6th, 2022

Place: Room 745, Science Complex B H03 (hybrid)

Registration:"https://us02web.zoom.us/meeting/register/tZUuceGtqDIjGtfvuPDUGb3pErGk-jSaoaSE”

Abstract: Chemical compositions of variety types of stars contain useful information to constrain the nucleosynthesis in the universe and chemical evolution of galaxies. The products of nuclear reactions inside stars sometimes appear at the surface of red giants in the very late stage of stellar evolution. On the other hand, most of stars before that, including the Sun as a main-sequence star, preserve compositions provided by the previous generations of stars and supernova explosions. I will present methods to determine chemical compositions of stars and some examples of studies for understanding of nucleosynthesis in stars and supernovae and chemical evolution of the Milky Way and surrounding dwarf galaxies.

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