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[J] Oral | M (Multidisciplinary and Interdisciplinary) | M-GI General Geosciences, Information Geosciences & Simulations

## [M-GI35]Computational sciences on the universe, galaxies, stars, planets, and their environments

convener:Yoshi-Yuki Hayashi(Department of Planetology/CPS, Graduate School of Science, Kobe University), Junichiro Makino(Kobe University), Kanya Kusano(Institute for Space-Earth Environmental Research, Nagoya University), Shigeru Ida(Earth-Life Science Institute, Tokyo Institute of Technology), Chairperson:Yoshi-Yuki Hayashi(Department of Planetology/CPS, Graduate School of Science, Kobe University), Kanya Kusano(Institute for Space-Earth Environmental Research, Nagoya University), Junichiro Makino(Kobe University), Eiichiro Kokubo(Division of Science, National Astronomical Observatory of Japan), Takayuki Saitoh(Kobe university)

Fri. Jun 4, 2021 10:45 AM - 12:15 PM Ch.18 (Zoom Room 18)

Computer simulations have been recognized as one of the fundamental tools in understanding not only planetary formation, evolution and diversity of surface environment, but also the structure formation of the universe and its possible evolutions. However, it may be notified that the continuous development of computational abilities in recent years does not seem to be well utilized in improving numerical simulations in those fields; computational efficiency has been improved by 6 orders of magnitude compared from the early 90's, many of our simulations do not seem to catch up qualitatively and quantitatively such improvement. We propose here in this session, with the support of the MEXT program for promoting researches on the supercomputer Fugaku, to ask those who are interested in computational sciences of various fields not only of planetary formation and evolution but of earth, planetary and astrophysical sciences in general to join. The aim is to discuss various scientific and technical aspects of our numerical simulations to improve our skills to fully utilize those development of computational resources that has been exemplified by "Fugaku".

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11:00 AM - 11:15 AM

## [MGI35-08]Discussion