

**U053-003**

**Room: IC**

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## Launch Options for Science Missions in the New Era.

# Yoshifumi Inatani[1]

[1] ISAS, JAXA

For science missions made use of satellites and space probes in the past, there was a M-series launch system of ISAS. After JAXA, discussions are underway for new launch options for various science missions such as interplanetary launch, small satellite, and new ballistic flight tools, other than those for middle class science missions launched by present M-V launch system and existing sounding rockets. In these new options, a lower launch cost development is promoted for creating more frequent mission opportunities. In the sounding rocket there are various demands for middle and upper atmosphere research, but far less launch than desired happens these days. An innovative idea for next generation reusable sounding rocket is in progress. Status of discussions for these new launch tools will be presented.