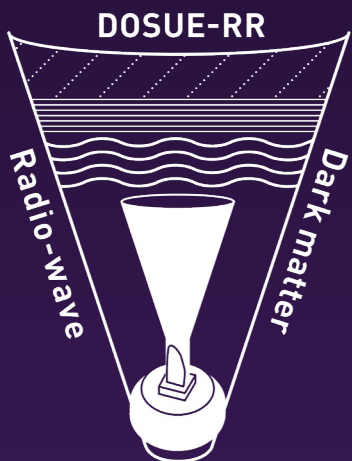
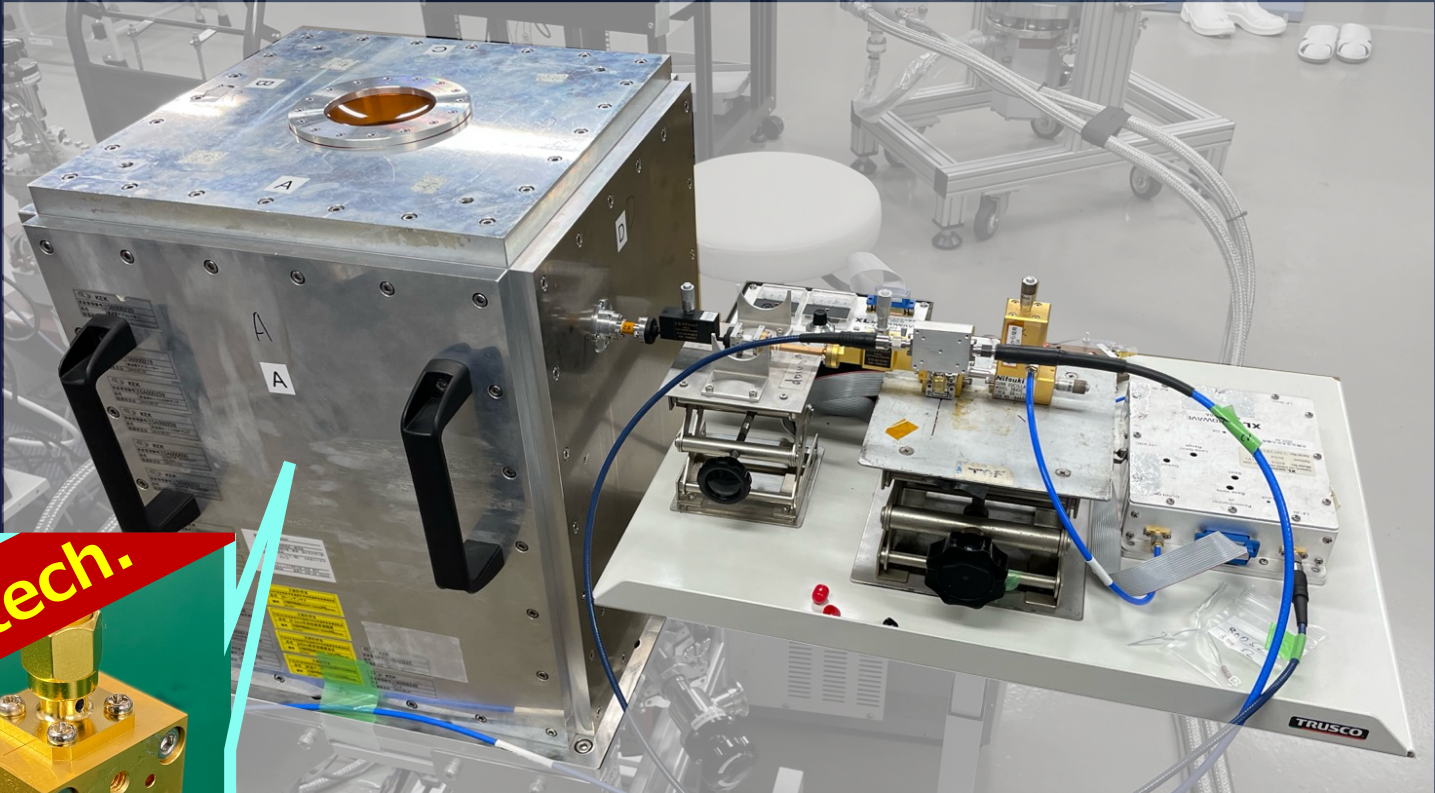


Status of DOSUE-RR Experiment for Dark Photon Dark Matter Search at $m_{DP} \sim 1 \text{ meV}$

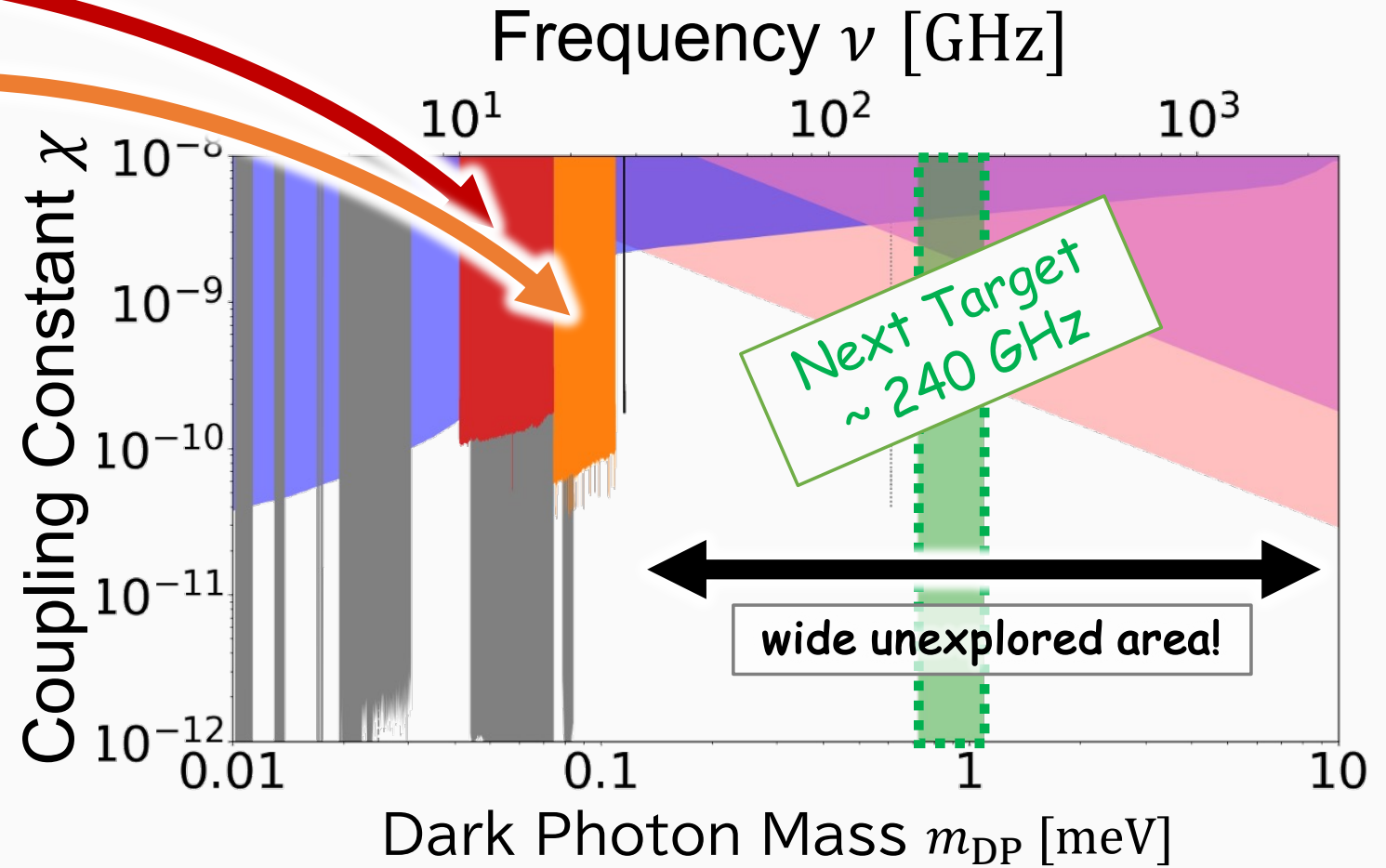
Keigo Hanimura,
Shunsuke Adachi, Hiroki Takeuchi,
Junya Suzuki, Osamu Tajima,
Shunsuke Honda ^A, Tac Nakajima ^B,
Hideo Ogawa ^C, Yutaka Hasegawa ^D

Kyoto University, University of Tsukuba ^A,
Nagoya University ^B, Osaka Metropolitan
University ^C, NICT ^D

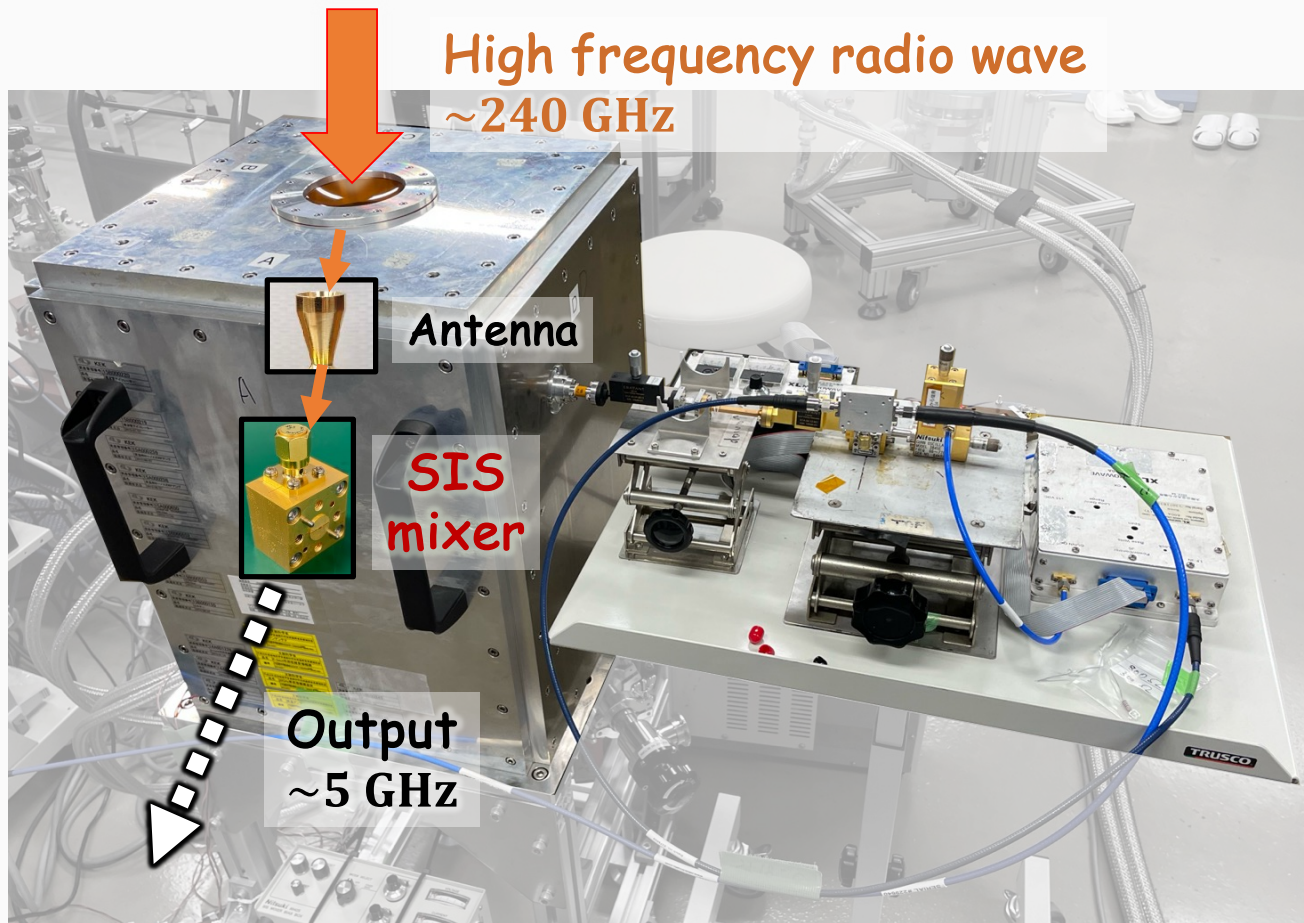


High Frequency
(~240 GHz) Receiver

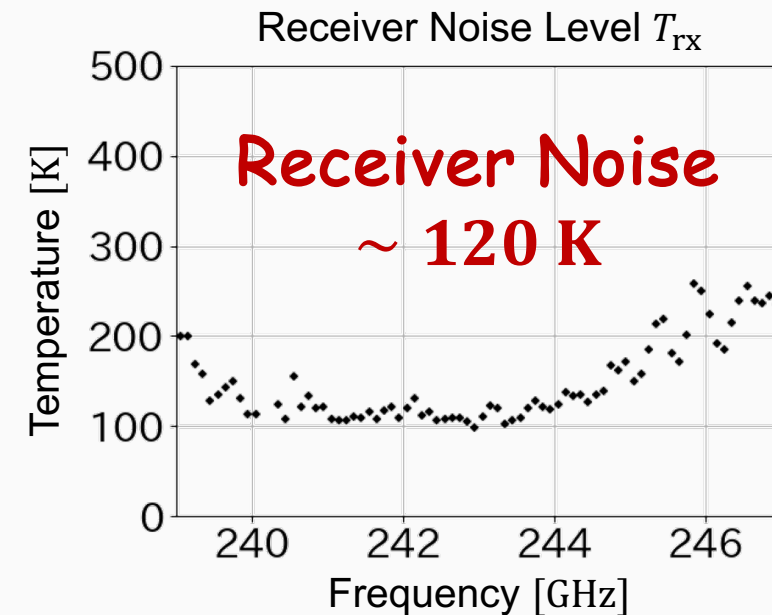
DOSUE-RR Experiment



The Development of The Receiver



- Key device: **SIS mixer**
 - a superconducting down-converter
 - based on technology of radio astronomy



Estimation the sensitivity on coupling constant χ

