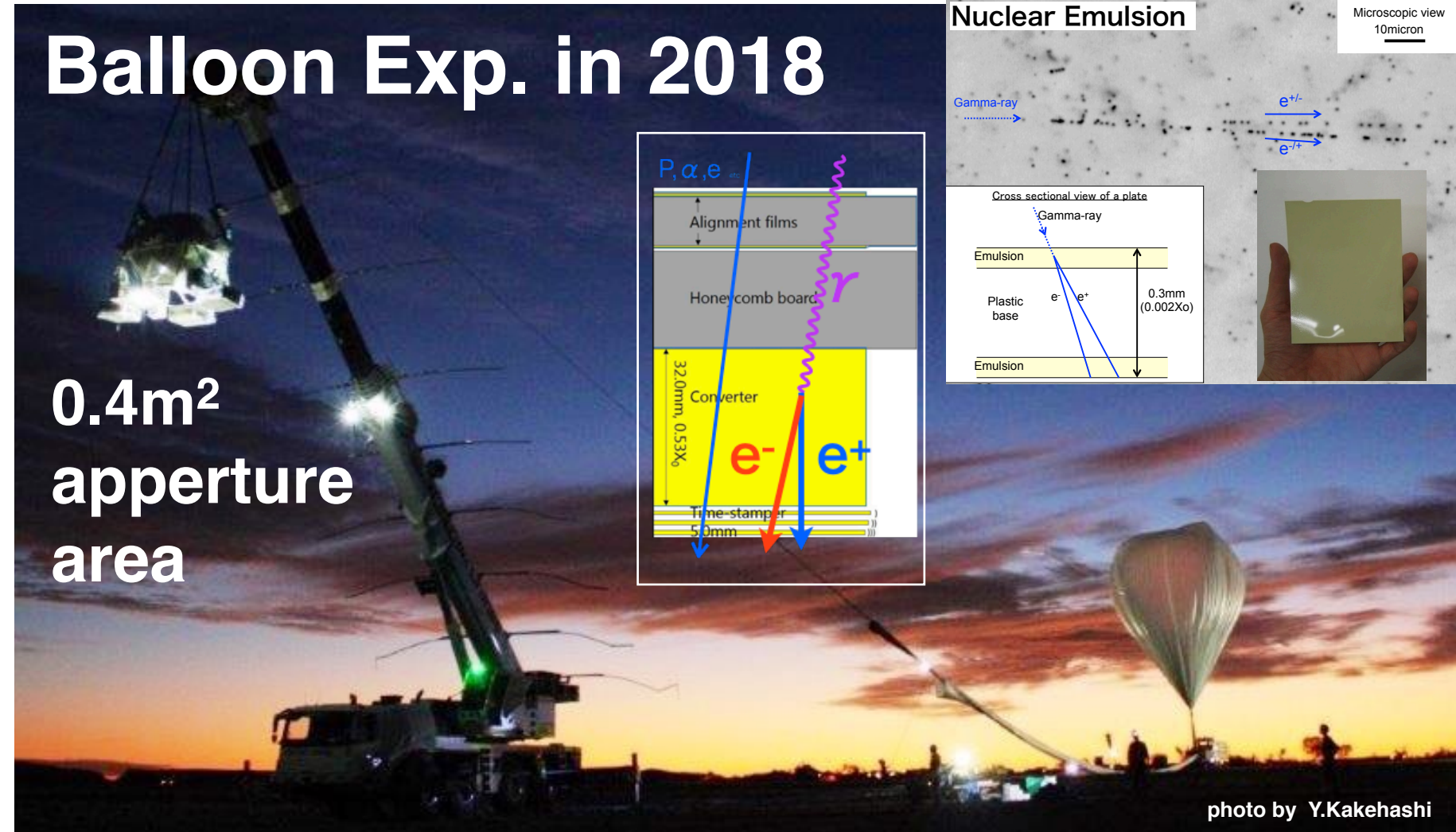


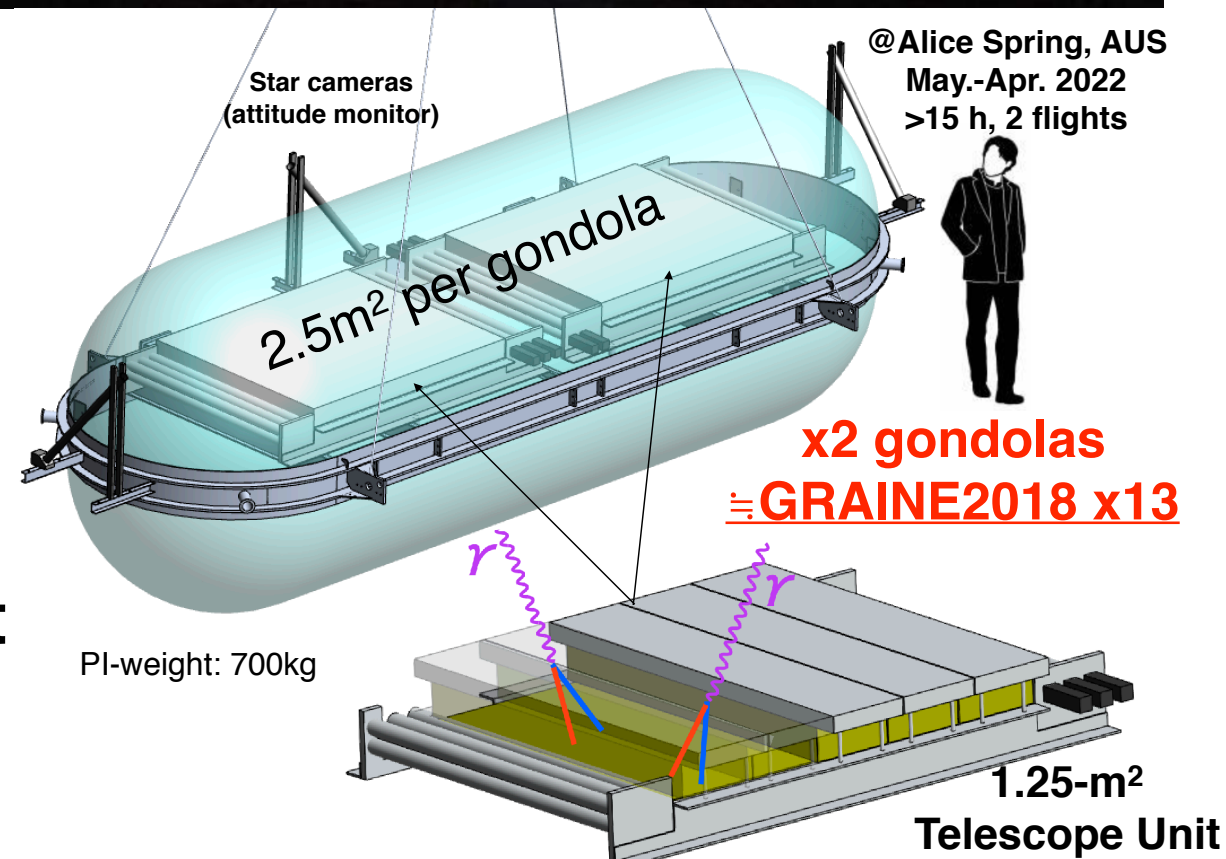
Observation of sub-GeV Atmospheric γ rays on GRAINE 2018 Balloon Experiment & Comparison with HKKM

- ✓ Precise observation of cosmic γ rays with a balloon-borne emulsion telescope
- ✓ Succeeded in GRAINE's first detection and imaging (world's highest angular resolution) of γ -ray source, Vela pulsar

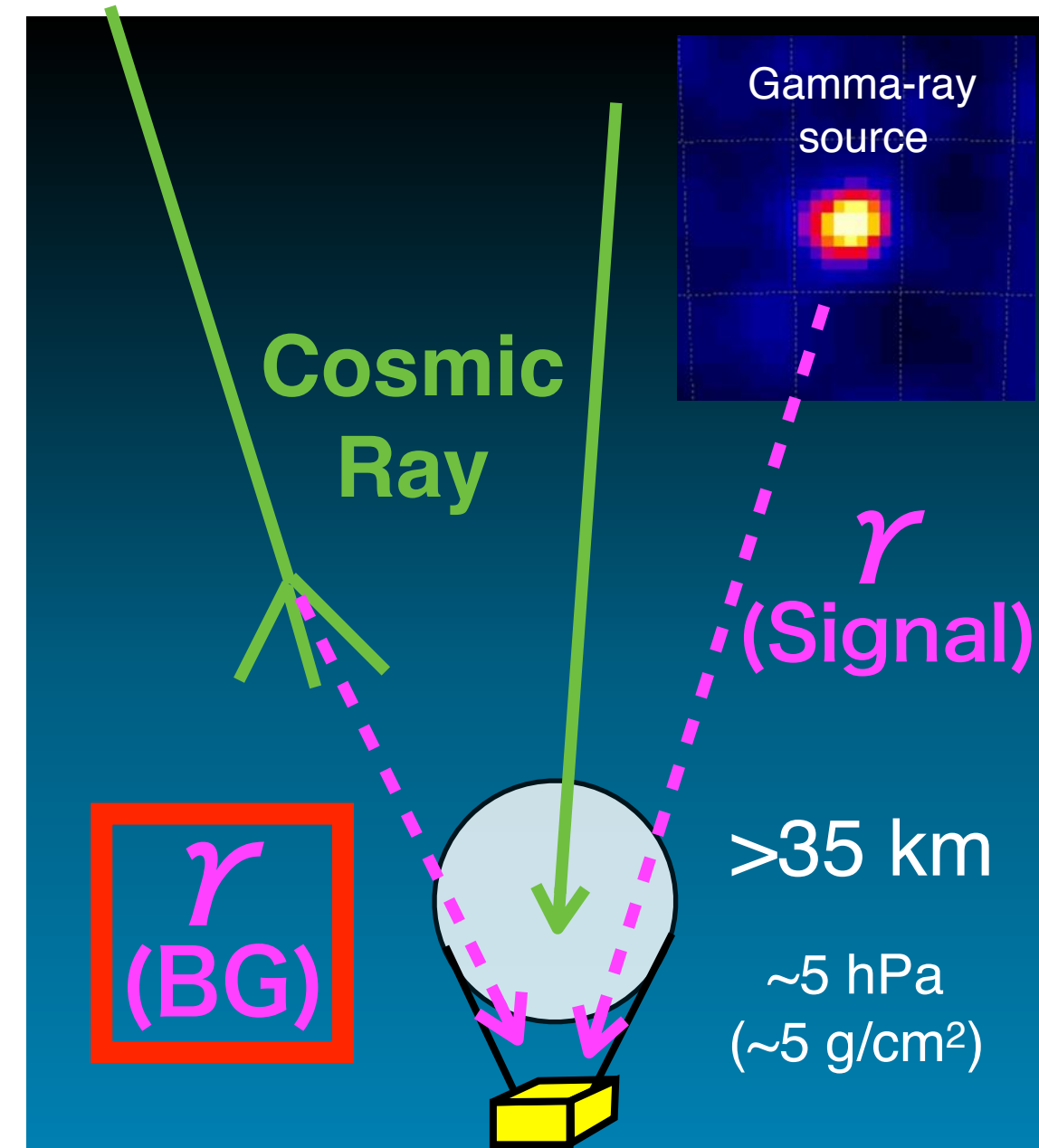


- ✓ Large-scale observation in the next flight, for observation of GeV band, etc.

GRAINE-Next in 2023 (approved)



- ✓ Atmospheric γ rays are the main background of observation also used as verification data for the amount of π^0 ($\cong \nu$) produced from CR interaction at high altitudes.



- via π^0 decay
- Checking source for
 - Low energy CR Int. model
 - Low energy π^0 ($\cong \nu$) Prod.
- Unique data by Balloon Exp.

- ✓ Atmospheric γ -ray spectrum (0.1-1 GeV) on GRAINE 2018 flight data

