



ATLAS-China Faculty meeting 2026

Nankai group Highlight

Bo Liu

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Members and recent CP,OTP and upgrade activities

- **Members:**

- 1 Faculty: Bo Liu
- 2 Master students

- **CP, OTP and Upgrade contributions:**

- B-jet trigger coordinator (2024-2026) (Bo)
- FTAG physics validation contact (2026-) (Bo)
- B-jet trigger calibration for 2024/2025 dataset
- HGTD upgrade: hybrid/module test at IHEP

Physics analysis activities

- VBF+photon ($H \rightarrow bb$) legacy paper (analytics contact)
 - [arXiv:2509.14005](https://arxiv.org/abs/2509.14005)
- $HH \rightarrow \text{multilep} + \gamma\gamma$ (analytics contact)
- Time-dependence $t\bar{t}$ cross-section measurement
 - Input for Lorentz invariance violation with $t\bar{t}$ (with NJU)
 - There are also other LIV searches inside ATLAS ($H \rightarrow \gamma\gamma$, $Z \rightarrow ee/\mu\mu$)
- $HHH \rightarrow 6b$ search
- $H \rightarrow \gamma^* \gamma \rightarrow ll\gamma$

Advertisement for FPCP 2027

25th Conference on
Flavor Physics &
CP Violation

Tianjin, China
5.16-5.21 2027



Welcome to Tianjin



Date to be finally settled
(could shift 1 week)