What is $nn\Lambda$??

No charge nuclei

Neutron rich matter (T = 1)





We search for $nn\Lambda$ state at Jefferson Lab

*nn*Λ experiment (E12-17-003)

nnΛ experiment was performed in Nov. 2018. (M2)





1. Determination of $nn\Lambda$ state

2. Study of Λ -*n* interaction

Plan of GP-PU Program



GP-PU Oversea Program (3 mounts)

- JLab (2 weeks) in August
- Future plan 2020 ~
 - 1 month stay at JLab (for discussion with L. Tang about analysis around August)
 - two weeks stay at Mainz (for participating in Bean times around March 2021)
 - More 1 month stay at JLab (for preparation of ${}^{40,48}_{\Lambda}$ K experiment)



Totally I'll achieve more than 3 month