

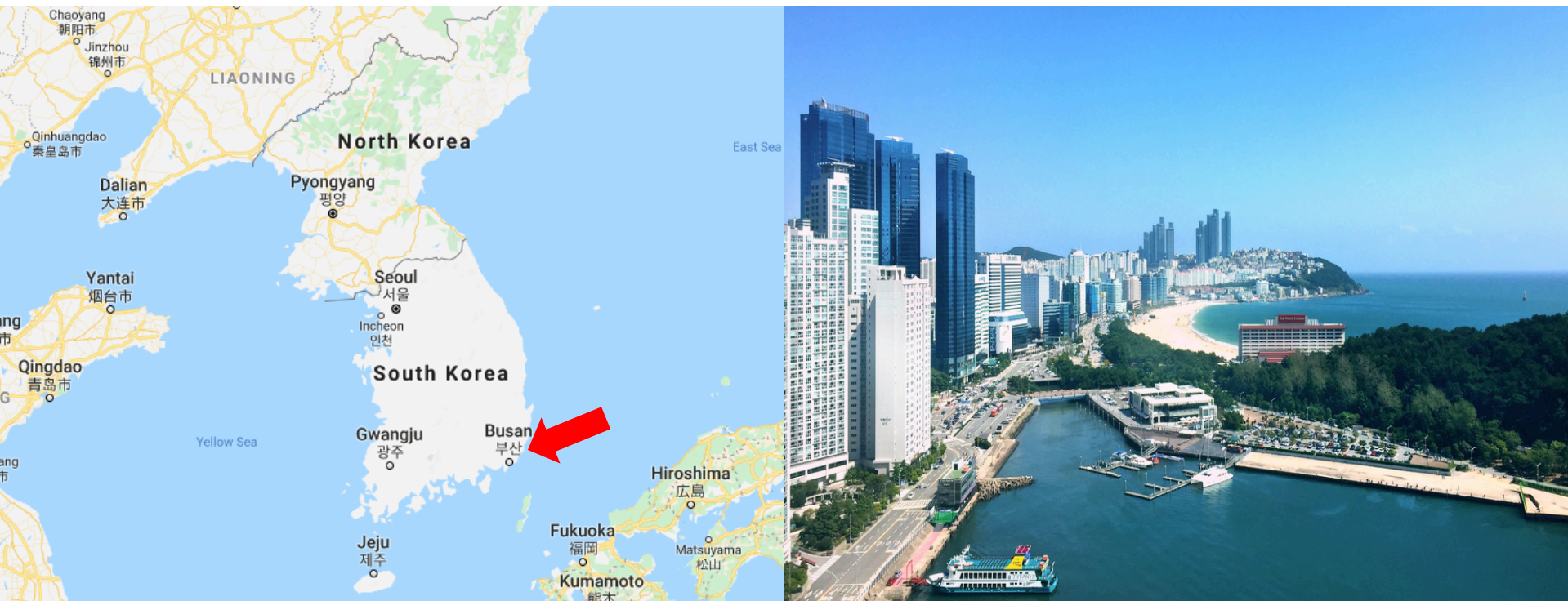
***Proposal for Pusan National University
to join sPHENIX***

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부산대학교
PUSAN NATIONAL UNIVERSITY

- Locate at southern part of Korea
 - Second largest city in Korea
 - Next Strangeness in Quark Matter (SQM) in 2021 (May 17-22)



Pusan National University

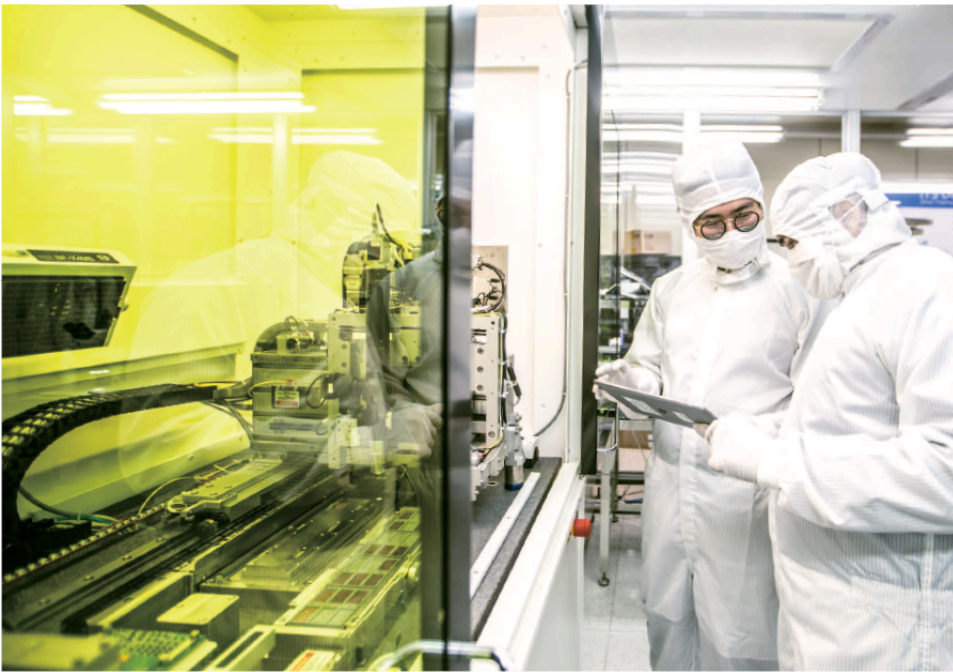


- Founded in 1946
- Supported by Korean government
- ~28,000 students
(~8,000 graduate students)
~2,000 academic staff
- Web page
 - <http://www.pusan.ac.kr/eng/Main.do>
- Physics department
 - ~20 faculty members
 - ~250 undergrad students
 - ~30 grad students

High energy nuclear physics lab



- One faculty working on heavy-ion
 - In-Kwon Yoo
- Mainly focusing on ALICE
 - Had participated in STAR (not anymore)
 - Facility to produce outer barrel stave for the ALICE ITS upgrade
 - Group members
 - Actively working on the ALICE ITS upgrade
 - 3 graduate students
 - undergraduate students





- Past and present
 - Have been participating in sPHENIX
 - Yonsei University (PHENIX)
 - Los Alamos National Lab (PHENIX/sPHENIX)
 - University of Colorado Boulder (PHENIX/sPHENIX/ATLAS)
 - Inner detector software
 - Vertexing
 - Performance study in high pileup condition
 - MVTX test beam analysis
 - Study of b-jet measurement in sPHENIX
 - Secondary vertex analysis
 - Performance evaluation

- Future
 - Research interest
 - Interested in heavy-flavor physics (b-jet analysis)
 - Inner detector software (vertexing/tracking)
 - Possibility to more involve in the MVTX project based on ALICE ITS experience
 - Participant
 - Start with myself for the time being
I grad student for ALICE starting from March
 - Will recruit more students for sPHENIX
 - Fund
 - ALICE activity will be mostly supported by Korean government
 - Have submitted a research proposal for PHENIX/sPHENIX (under review)
 - Small research fund from the university (can support one student)