

Physics plan in Japan

- PACS-CS status and plan
- JLQCD status and plan

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PACS-CS: status and plan

2+1 flavor QCD

- Wilson-clover quark action with nonperturbative c_{SW}
- Iwasaki gauge action
- LDDHMC for ud quark and UV-filtered PHMC for s quark

Status

- $32^3 \times 64$ at $\beta = 1.9$ ($a^{-1} = 2\text{GeV}$)
- running at $m_{ud} = 6, 12, 22, 42, 64$ MeV with m_s at the physical point
- public release date undecided

Plan

- try m_{ud} at the physical point
- simulations on $L=4\text{fm}$ at $\beta=2.05, 1.9, 1.83$ (2008~)

JLQCD: status and plan

2, 2+1 flavor QCD

- Overlap quark / Iwasaki gauge actions
- Topology is fixed by extra Wilson fermion/ghost

Status

- Nf=2: $16^3 \times 32$, $a=0.12\text{fm}$, $m_{ud}=1/6-1 m_s$, (10k trj, finished)
- Nf=2+1: $16^3 \times 48$, $a=0.12\text{fm}$, $m_{ud}=1/6-1 m_s$, (in progress)
- Q=0, comparison with nonzero topology
- Public release soon after first papers are published

Plan

- Larger lattice size