

**Probing the chiral limit of  $m_\pi$  and  $f_\pi$  in 2+1 flavor QCD with  
domain wall fermions from QCDOC**

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Abstract: We present results for the pion mass and pion decay constant from QCDOC on 2+1 flavor DWF configurations with different sea quark masses and an inverse lattice spacing of around 1.8 GeV, with a focus on chiral fits at small quark masses. The calculation is done on  $16^3 \times 32$  lattices generated with RG-improved gauge actions. Initial studies on  $24^3 \times 64$  lattices are also presented.