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calculation of strange and light quark condensate using improved staggered fermions and overlap fermions

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We calculate the strange quark condensate and the light quark condensate by using improved staggered fermions and overlap fermions, respectively. Then we report the mass dependence of the quark condensate. We use N_f = 2+1+1 MILC HISQ(highly improved staggered quark) gauge ensembles. We use a normal CG inverter to calculate the quark condensates for higher quark masses, and the Lanczos and the eigCG algorithms for lower quark masses. We also study the multi-mass algorithm.

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