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New results for thermal interquark bottomonium potentials using NRQCD from the HAL QCD method

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We report preliminary progress in the calculation of the thermal interquark potential of bottomonium using the HAL QCD method with NRQCD quarks. We exploit the fast Fourier transform algorithm, using a momentum space representation, to efficiently calculate NRQCD correlation functions of non-local mesonic S-wave states, and thus obtain the central potential for various temperatures. This work was performed on our anisotropic 2+1 flavour "Generation 2" FASTSUM ensembles.

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