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Neutron-antineutron oscillation matrix elements with domain wall fermions at the physical point

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Neutron-antineutron oscillations are hypothetical processes changing the baryon number by 2 units. Compared to proton decay, they present another scenario of baryon number violation and, if found, they would have different implications for phenomenology of baryogenesis. If such baryon number violation exists at higher scales beyond the Standard model, it will manifest itself at the hadron scale as effective six-(anti)quark operators turning neutrons into antineutrons and vice versa. Nucleon matrix elements of these operators are important for experiments looking for evidence of such processes. I will present preliminary results for these matrix elements computed with physical Nf=2+1 domain wall quarks. Results are non-perturbatively renormalized and converted to MSbar.

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