

Workshop for young scientists with research interests focused on physics at  
FAIR



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## Poincare invariance in NRQCD and pNRQCD

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We present the calculations on the relations between Wilson coefficients in non-relativistic QCD and potential non-relativistic QCD by using non-linear field transformations to implement Poincaré invariance in them. The results confirm the known relations and it can further be used to derive the constraints between the coefficients of the higher order terms in the expansions. Similarly, its implementation to the soft-collinear effective theory will briefly be introduced as an outlook.

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