1	(Anti-)Deuteron directed flow v_1 in Au+Au Collisions at $\sqrt{s_{NN}}$ =14.6, 17.3 and 19.6 GeV
2	from STAR
3	Minmin Wang
4	(Dated: November 14, 2024)
5	Study of light nuclei flow in heavy-ion collisions, that inform on their production mechanism
6	and the underlying collision dynamics, is of particular interest for both theoretical and experimental
7	efforts. From previous measurements by the STAR, there is a hint that the deuteron directed flow v_1
8	slope shows an opposite sign compared to that of the proton, which is in confilict with the nucleon
9	coalescence picture.
10	In this poster, we will show new precision measurements of v_1 for deuterons and anti-deuterons
11	in Au+Au collisions at $\sqrt{s_{NN}}$ =14.6, 17.3 and 19.6 GeV by the STAR experiment at RHIC from
12	the Beam Energy Scan Phase - II. The rapidity and transverse momentum dependence of v_1 will be
13	presented and compared with those of protons and anti-protons. These results will also be discussed
14	within the framework of nucleon coalescence.