

n -particle cumulant	Quantity	Correlation sign	Quantity	Correlation sign
4	NSC(2, 3)	—	NSC(2, 4)	+
6	nMHC(v_2^4, v_3^2)	+	nMHC(v_2^4, v_4^2)	—
6	nMHC(v_2^2, v_3^4)	+	nMHC(v_2^2, v_4^4)	+
8	nMHC(v_2^6, v_3^2)	—	nMHC(v_2^6, v_4^2)	+
8	nMHC(v_2^4, v_3^4)	—	nMHC(v_2^4, v_4^4)	—
8	nMHC(v_2^2, v_3^6)	—	nMHC(v_2^2, v_4^6)	— (within uncertainties)