

I. TABLE OF REACTIONS AND THRESHOLDS FOR PANDA PHASEC PP-SCATTERING

Limiting to three particles production in the final state, the list of some reactions accessible with PANDA and proton beam is given in Table I.

Reaction	$E_{Threshold}$ (GeV)	\sqrt{s} (GeV)	P_{Lab} GeV/c
$p + p \rightarrow p + p + J/\Psi$	12.2428	4.97341	3.37082
$p + p \rightarrow p + \Sigma_C^+ + D^0$	13.7853	5.25637	3.59235
$p + p \rightarrow p + \Sigma_C^{++} + D^-$	13.8077	5.26037	3.59547
$p + p \rightarrow \Lambda_C^+ + D^0$	12.8554	5.08767	3.4605
$p + p \rightarrow p + p + \pi^0$	1.21793	2.01152	0.581016
$p + p \rightarrow p + p + a_0$	2.11326	2.39298	1.11036
$p + p \rightarrow p + p + f_0$	3.44056	2.86654	1.60006
$p + p \rightarrow p + k + \Lambda$	2.52044	2.54763	1.28066

TABLE I: Summary of reactions and threshold kinematics: total incident lab proton energy $E_{Threshold}$, total CMS energy \sqrt{s} , incident proton Lab momentum P_{Lab}