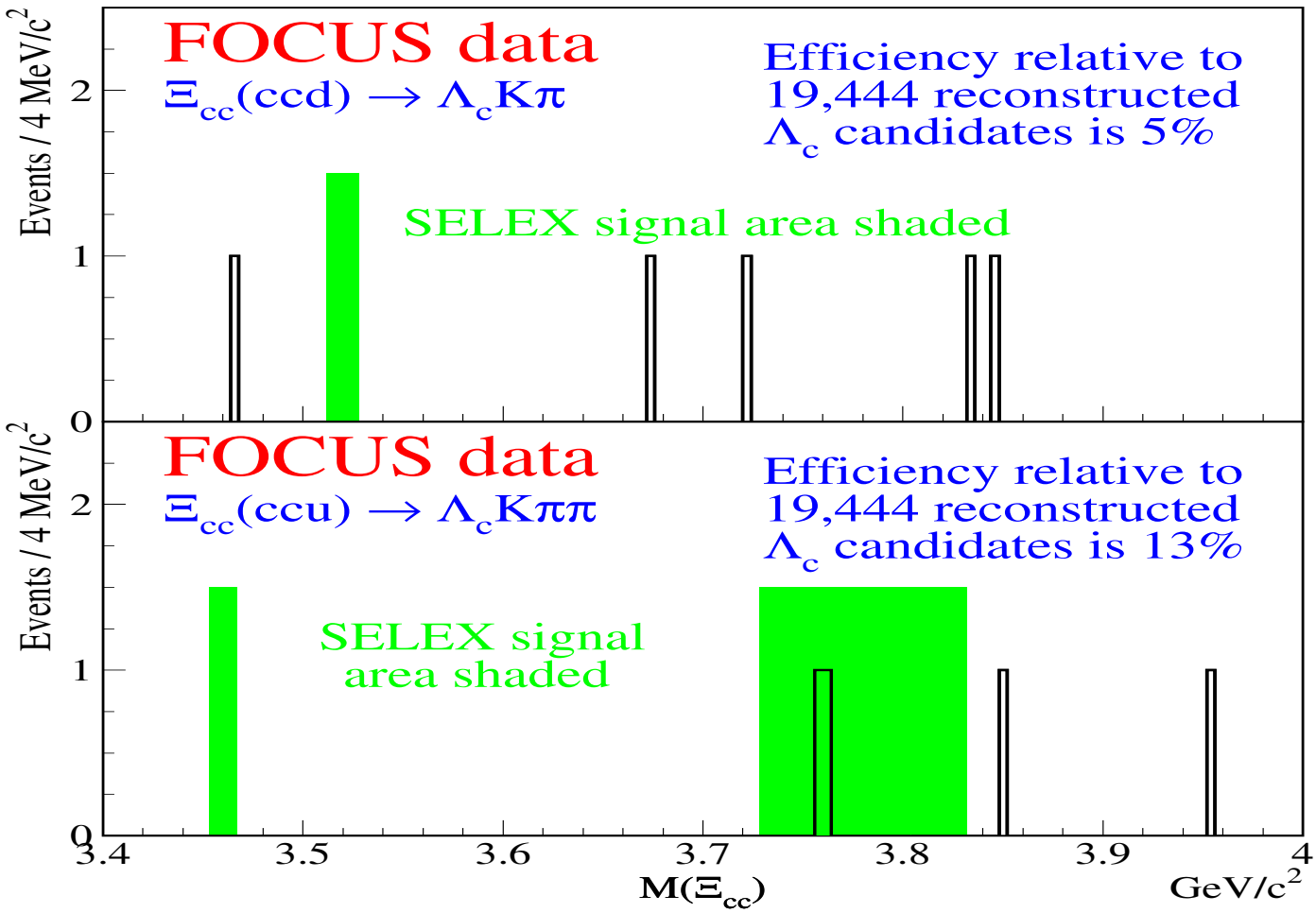
FOCUS data for SELEX decay modes



Decay Mode	$\Xi_{cc}^+ \to \Lambda_c^+ K^- \pi^+$		$\Xi_{cc}^{++} \to \Lambda_c^+ K^- \pi^+ \pi^+$	
Experiment	FOCUS	SELEX	FOCUS	SELEX
Ξ_{cc} Events	<2.21 @ 90%	15.8	<2.21 @ 90%	8
Reconstructed Λ_c	$19,444 \pm 262$	1650	$19,444 \pm 262$	1650
Relative Efficiency	5%	10%	13%	5%
Ξ_{cc}/Λ_c^+	$<0.23\%$ @ 90%	9.6%	$<0.09\%$ @ 90%	9.7%
$\frac{\text{SELEX}}{\text{FOCUS}}$ Rel $\frac{\Xi_{cc}}{\Lambda_c}$ Prod	>42 @ 90%		>111 @ 90%	

FOCUS efficiencies assume Ξ_{cc}^+ (Ξ_{cc}^{++}) lifetime of 0.2 ps (1.0 ps), a mass of 3.6 GeV/c^2, and production characteristics of a 3.6 GeV/c^2 Ξ_c particle in PYTHIA