

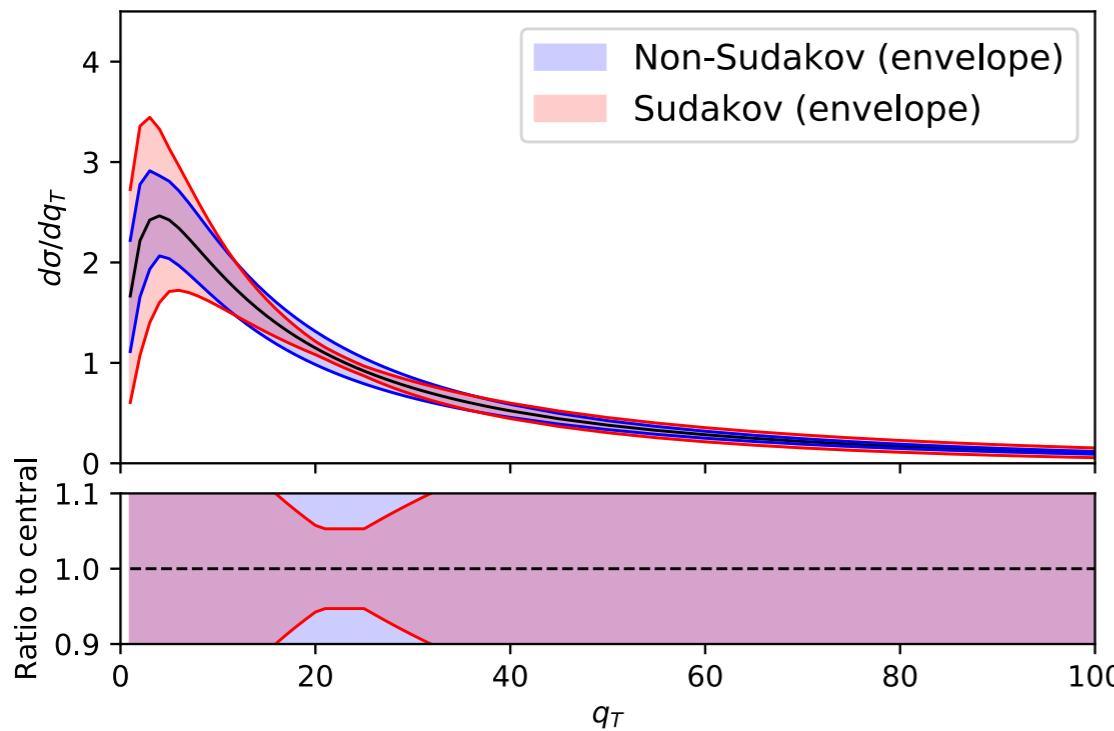
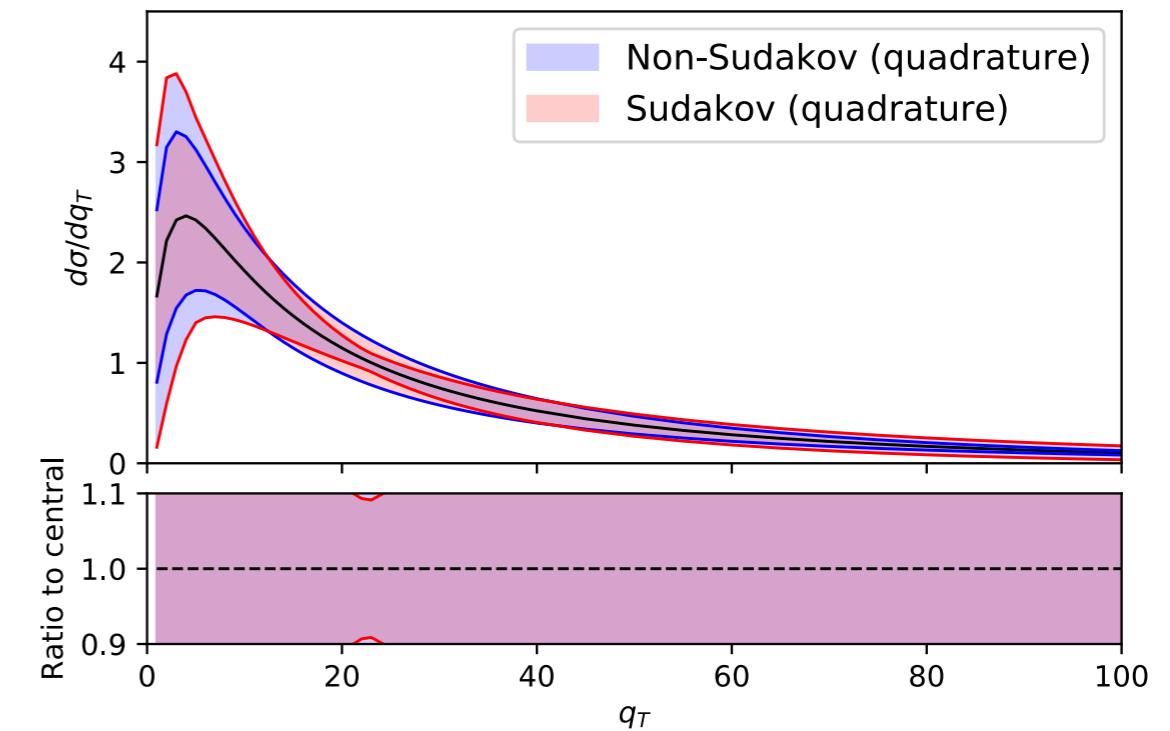
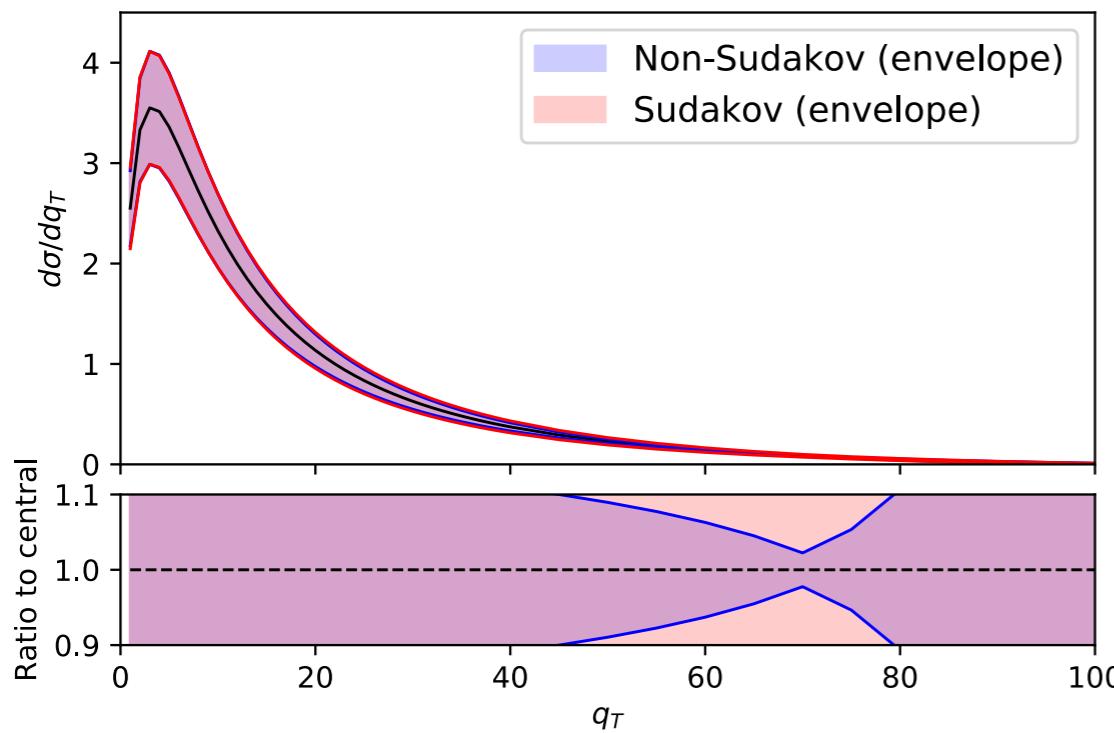
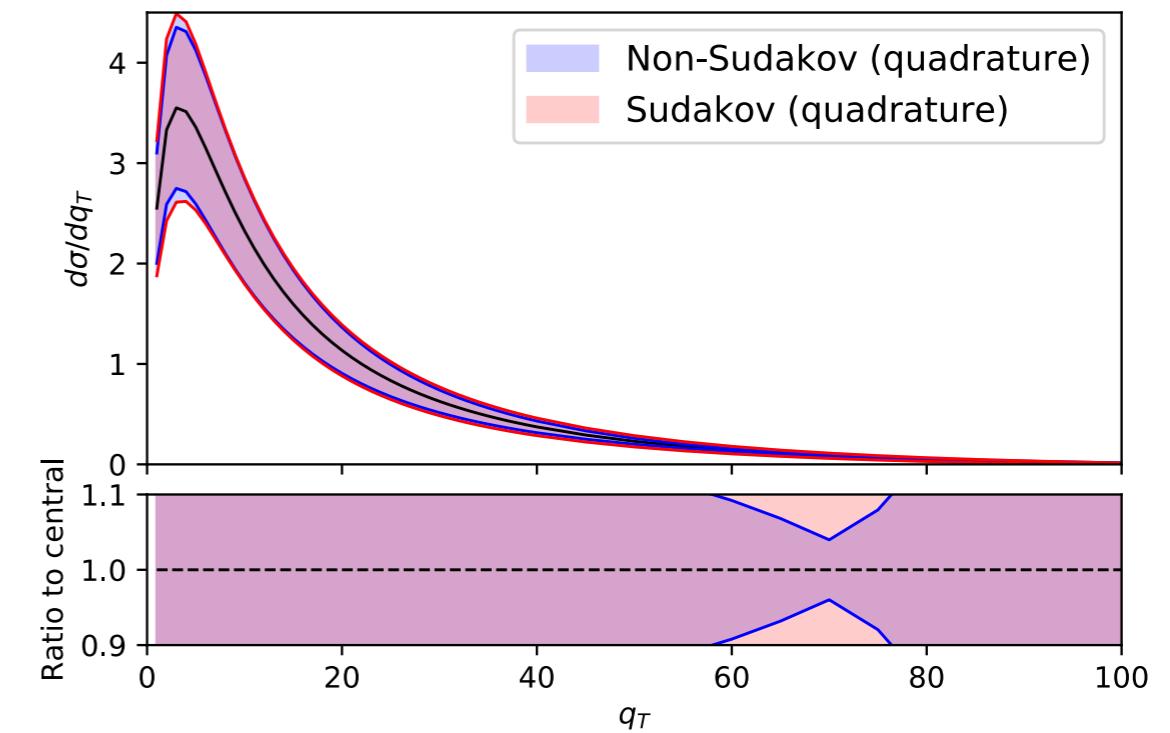
# *Nanga Parbat* updates

Valerio Bertone and Giuseppe Bozzi

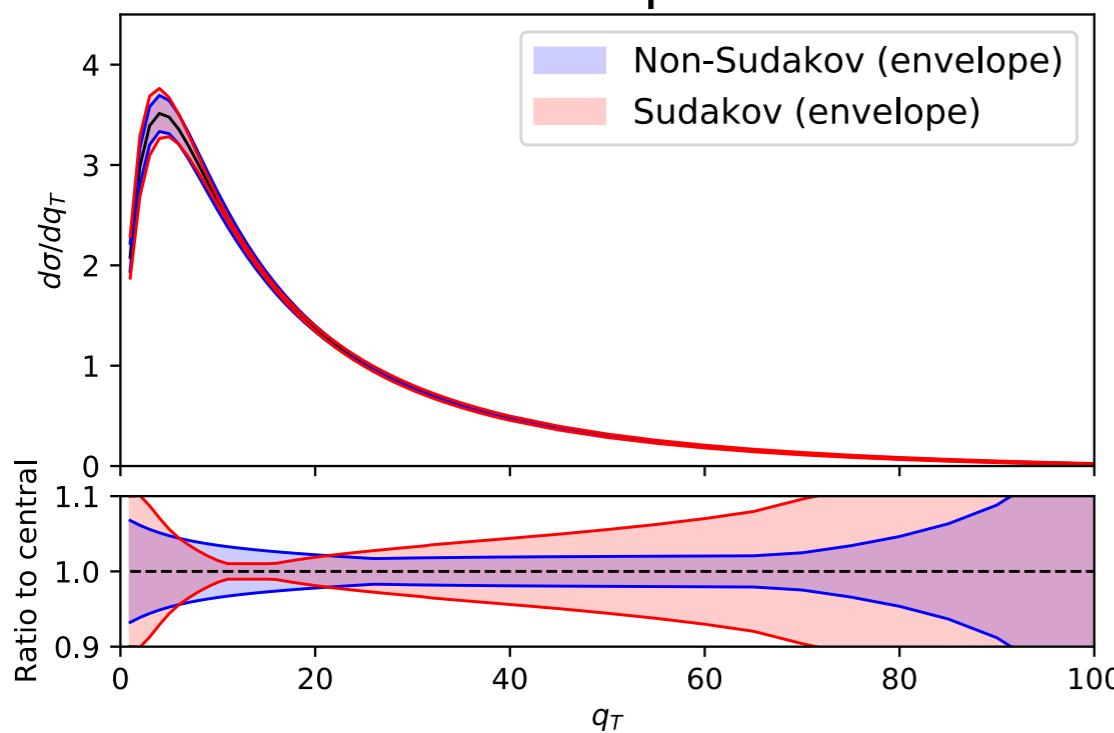
December 9, 2021

# Characterisation of uncertainties

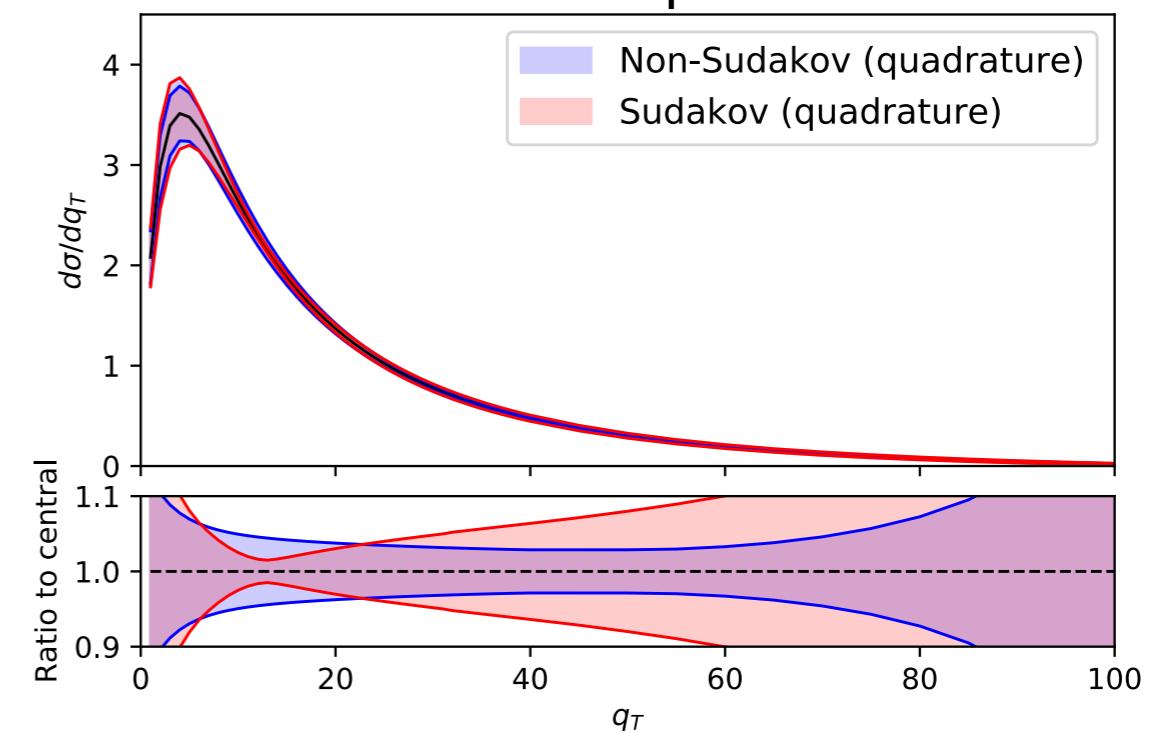
	Sudakov	Non-Sudakov	Matching	Non-perturbative
<b>arTeMiDe</b>	$\mu_f, \mu_{\text{OPE}} (c_2, c_4)$	?	no matching	$f_{\text{NP}}$
<b>Cute-MCFM</b>	$\mu, \mu_h, r$	$\mu_R, \mu_F$ (?)	Parameters of damping func. (?)	-
<b>DYTURBO</b>	$Q$	$\mu_R, \mu_F$	Parameters of Damping func.	$f_{\text{NP}} (?)$
<b>NangaParbat</b>	$Q, \mu_b$	$\mu_R, \mu_F$	Still none (damping func.)	$f_{\text{NP}}$
<b>RadISH</b>	$Q$	$\mu_R, \mu_F$	Parameters of Damping func.	-
<b>ResBos</b>	$C_1, C_2, C_3$	$\mu_R, \mu_F$ (?)	Damping func. (?)	$f_{\text{NP}} (?)$
<b>Resolve</b>	$\mu_S$	$\mu_R, \mu_F$	Parameters of Damping func.	$f_{\text{NP}} (?)$
<b>SCETlib</b>	$\Delta_{\text{resum}}$	$\Delta_{\text{FO}}$	Profile scale $\Delta_{\text{match}}$	(Cutoff variations) $\Delta_\Lambda$

**LL****LL****NLL****NLL**

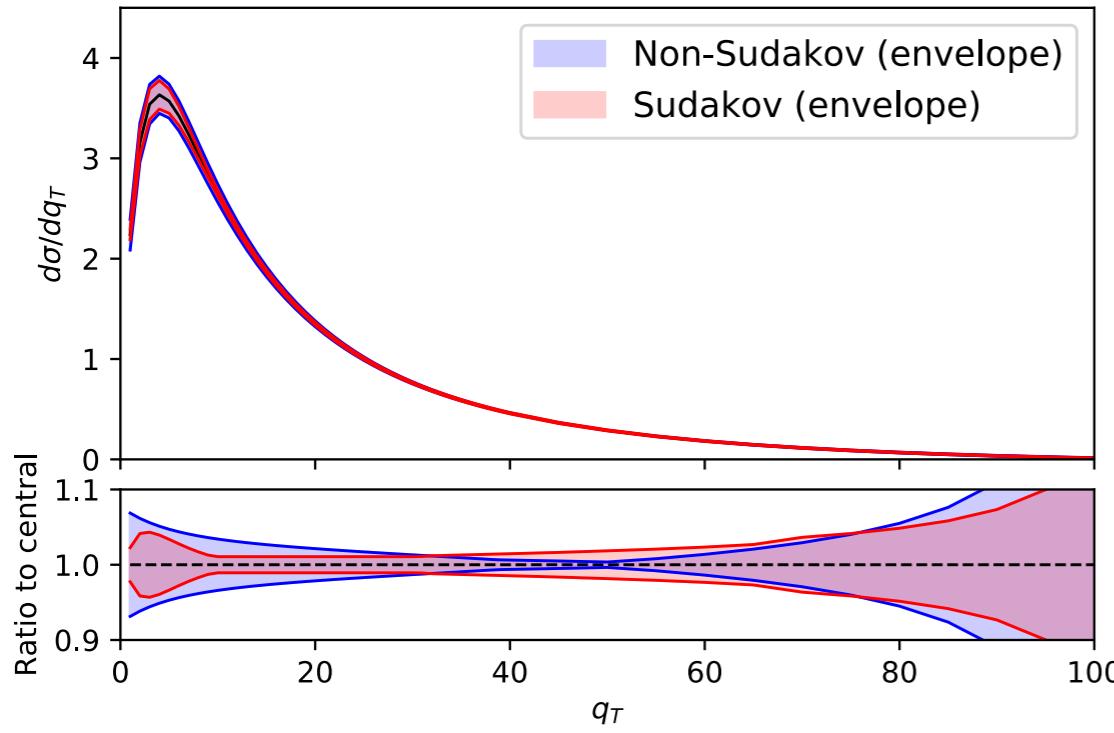
**NLLp**



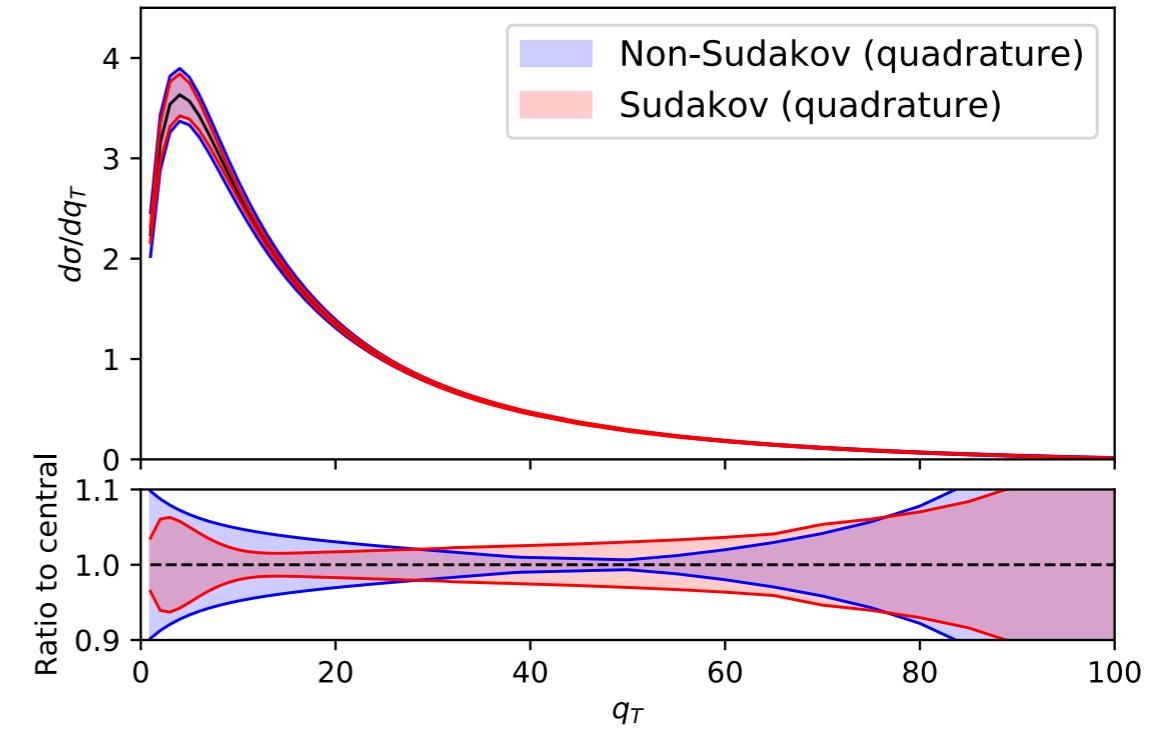
**NLLp**



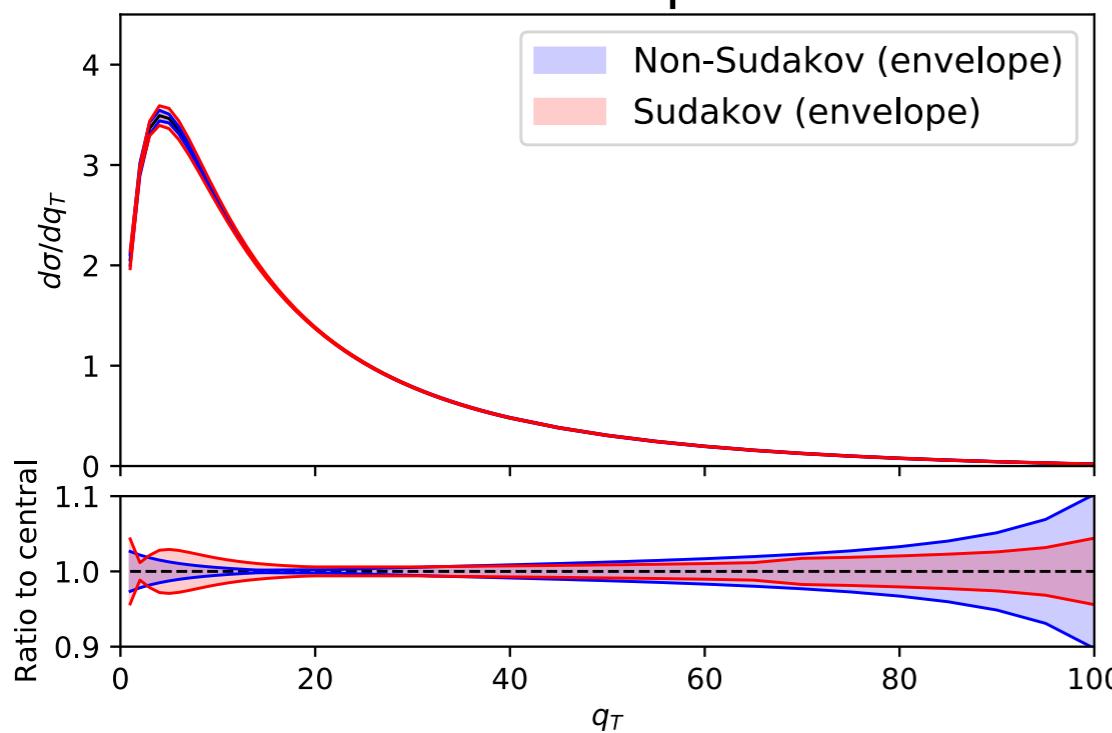
**NNLL**



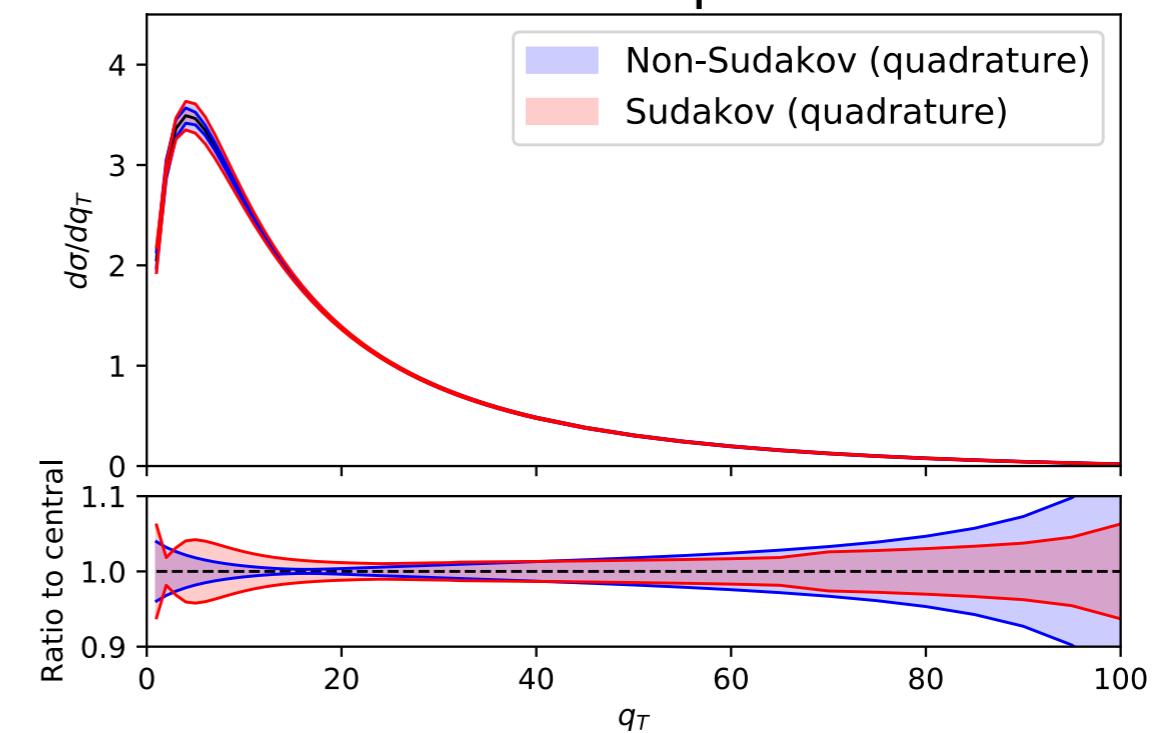
**NNLL**



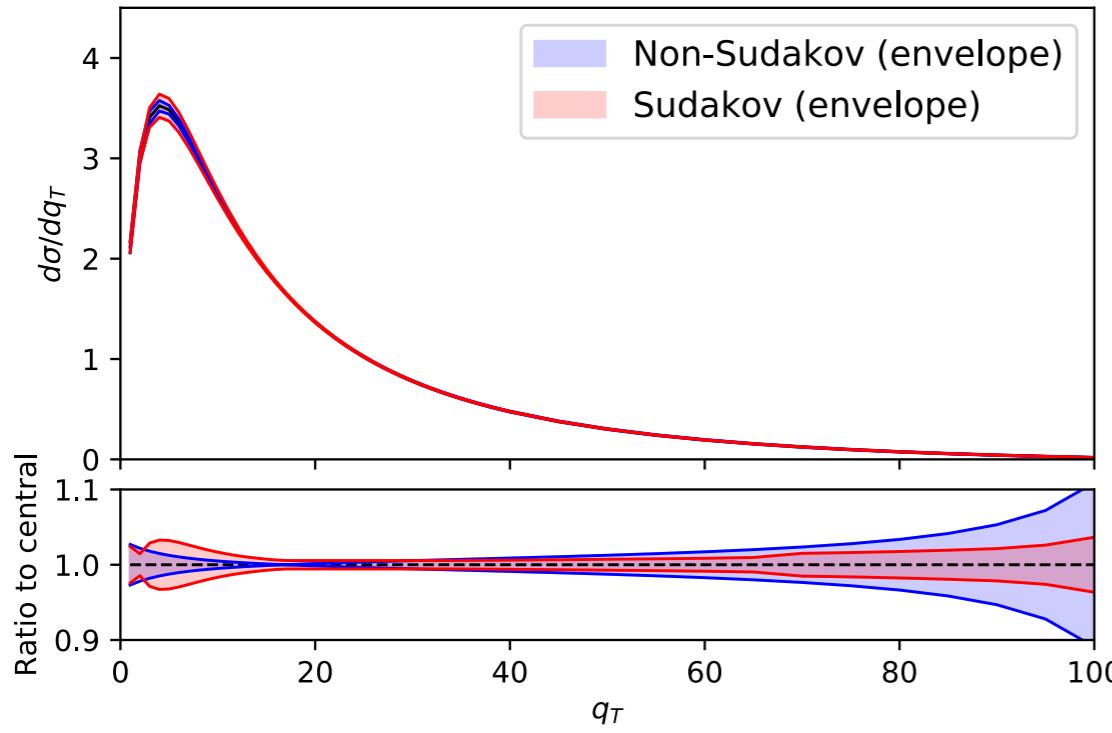
NNLLp



NNLLp



NNNLL



NNNLL

