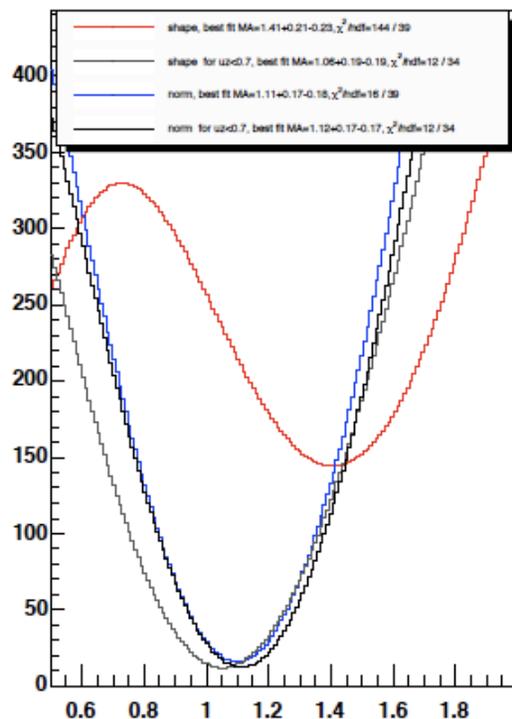


MA fit

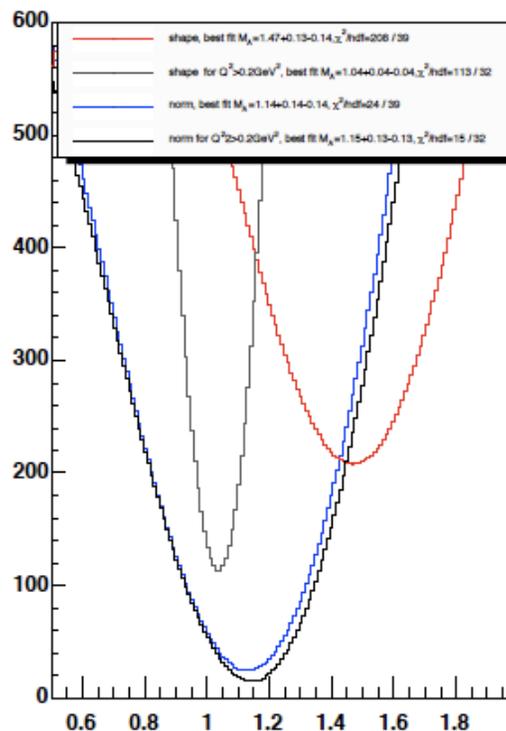
Jarek Nowak

$\chi^2$  for  $\cos\theta$



$M_A$  (GeV)

$\chi^2$  for  $Q^2$

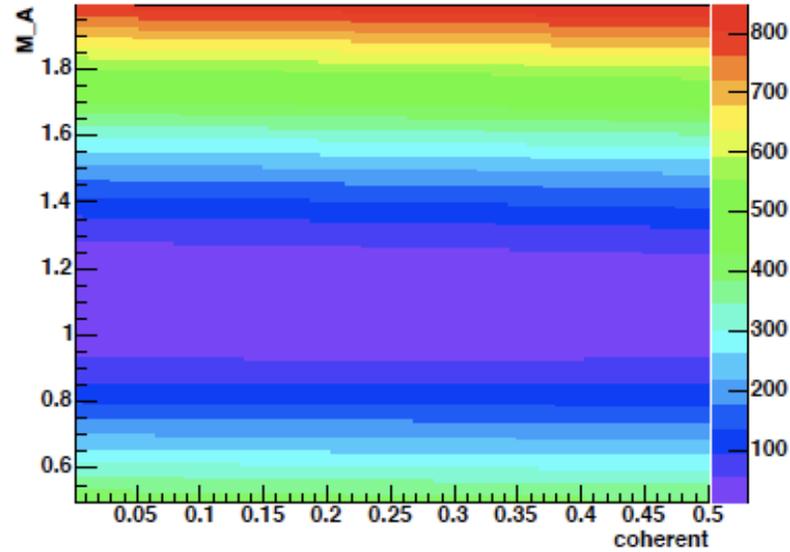


$M_A$  (GeV)

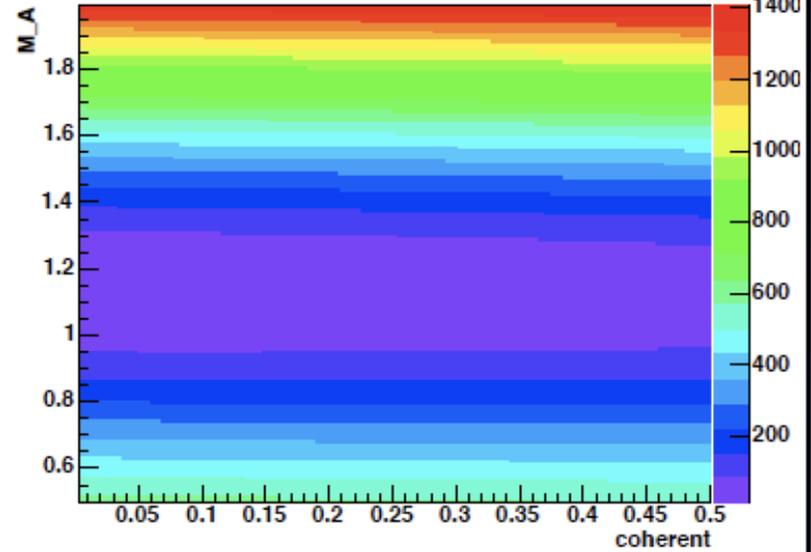
- \* Only MA fit
- \* Slightly lower values from presented at NuinT09

fit type	best $M_A^{1\pi}$ fit for $Q^2$ with $1-\sigma$ contour	best $M_A^{1\pi}$ or $\cos\theta$ with $1-\sigma$ contour
shape	1.47+0.13-0.14	1.41+0.21-0.23
shape w/o coherent region	1.04+0.04-0.04	1.06+0.04-0.04
POT normalized	1.14+0.14-0.14	1.11+0.17-0.18
shape w/o coherent region	1.15+0.13-0.13	1.12+0.17-0.17

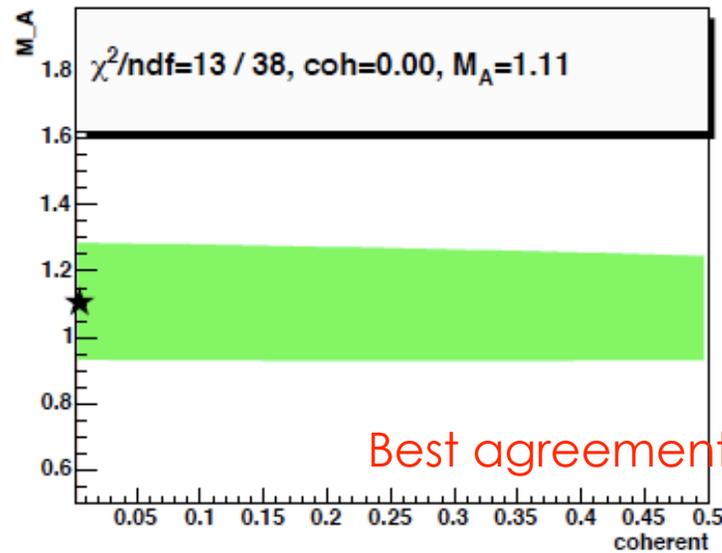
$\chi^2(\mathbf{uz})$  for absolute normalization



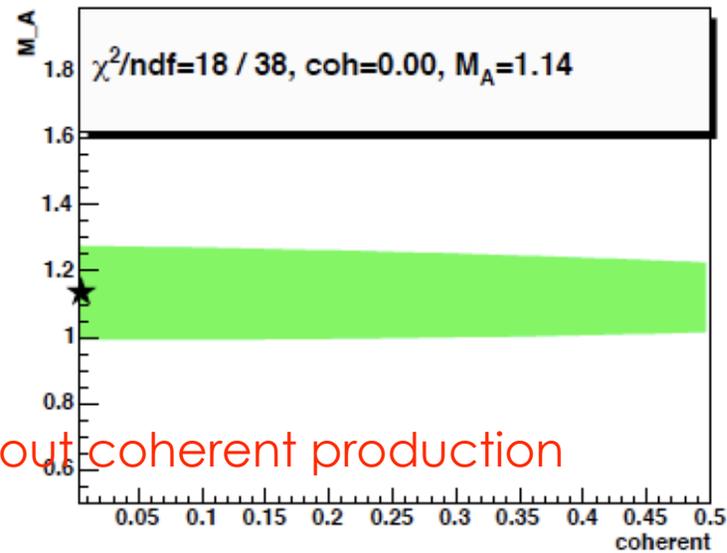
$\chi^2(Q2)$  for absolute normalization



$\chi^2(\mathbf{uz})$  for absolute normalization

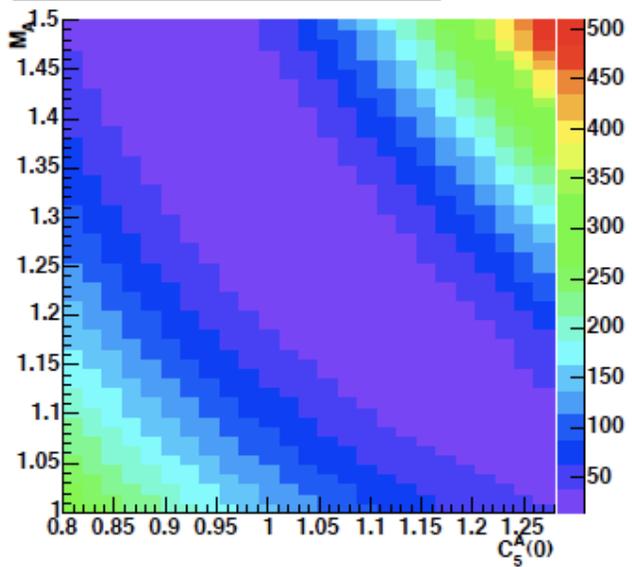


$\chi^2(Q2)$  for absolute normalization

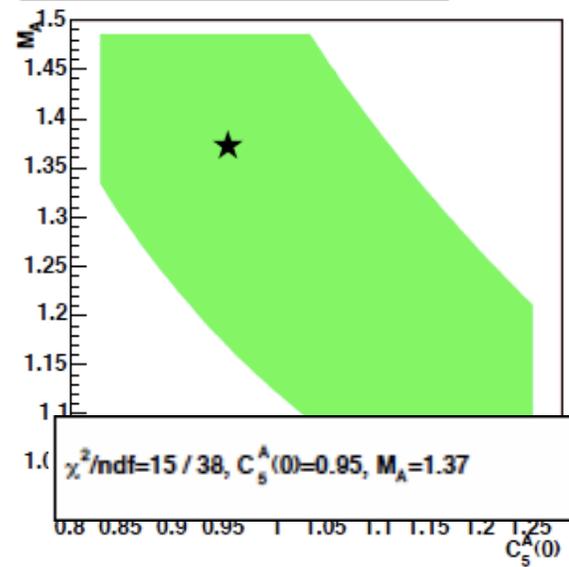


Best agreement without coherent production

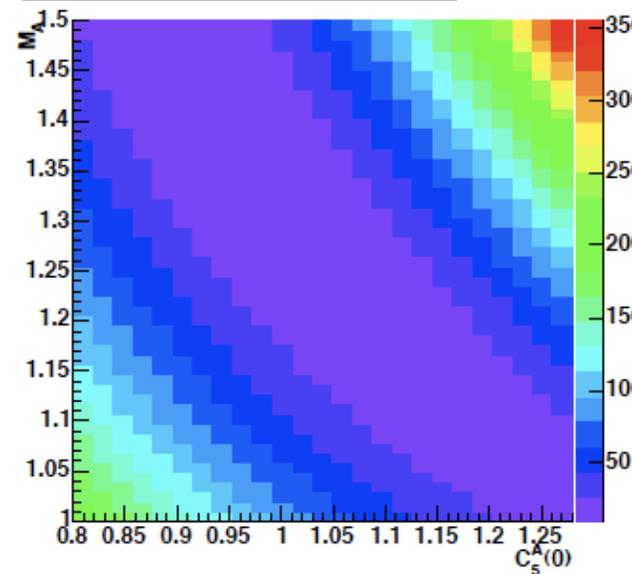
$\chi^2(Q2)$  for absolute normalization



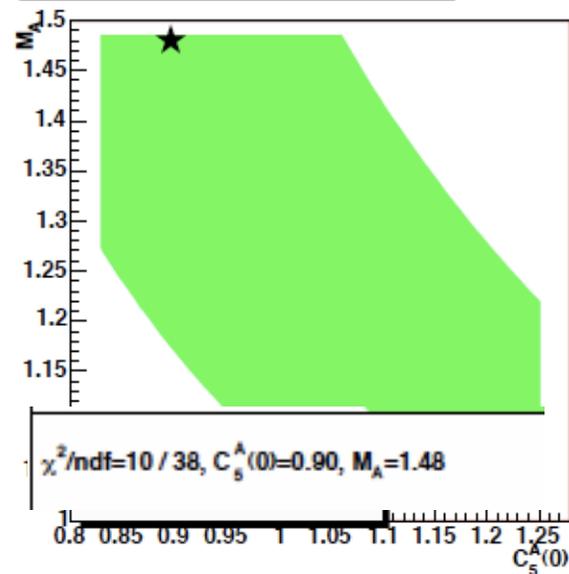
$\chi^2(Q2)$  for absolute normalization

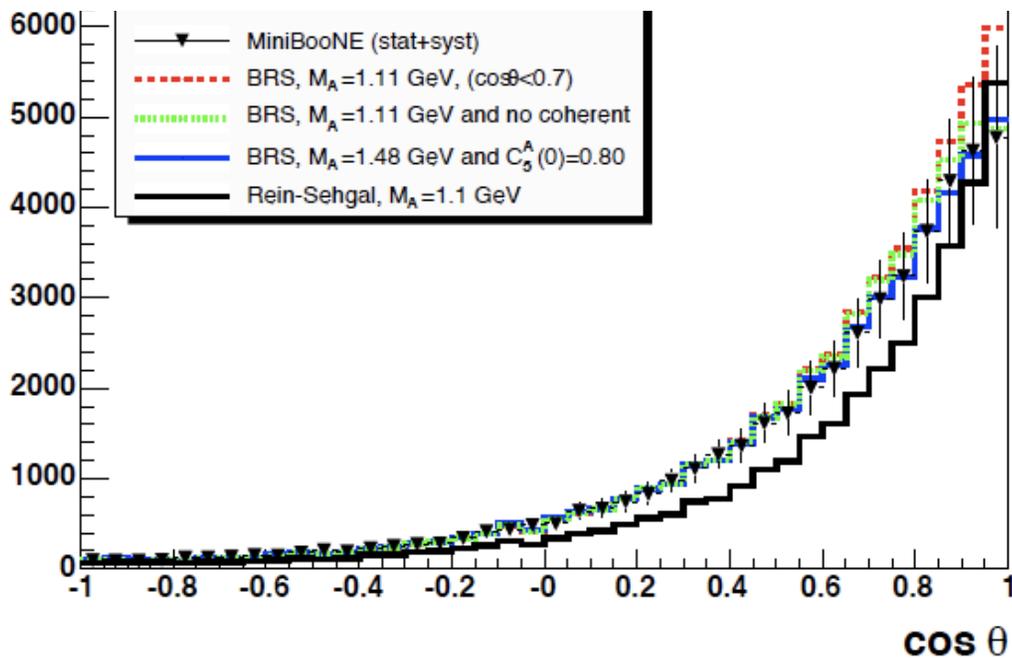
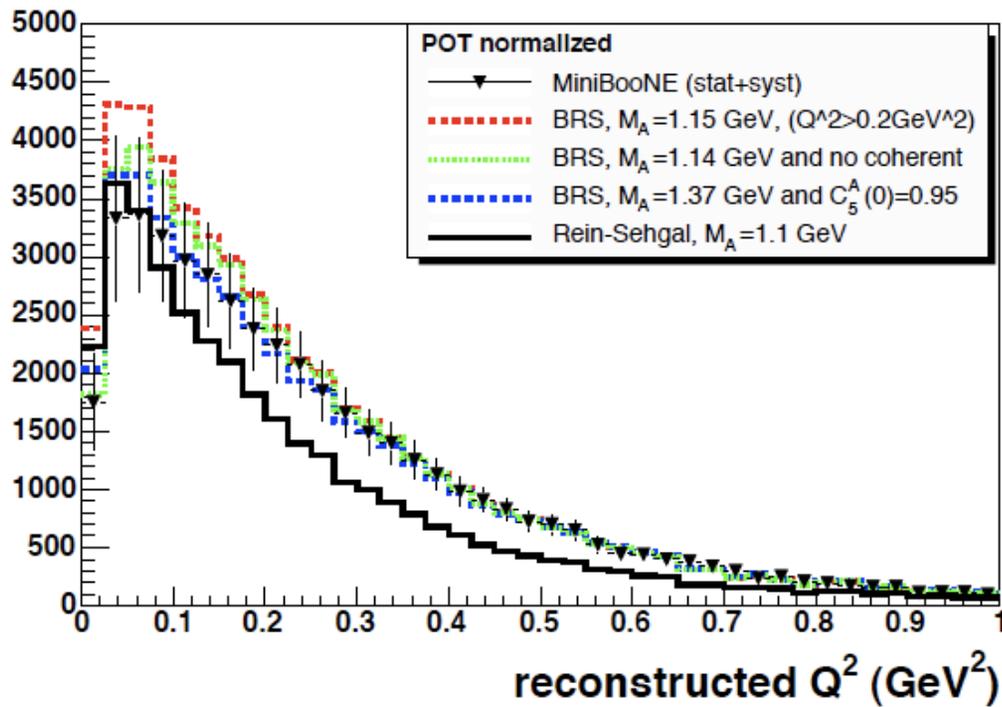


$\chi^2(uz)$  for absolute normalization

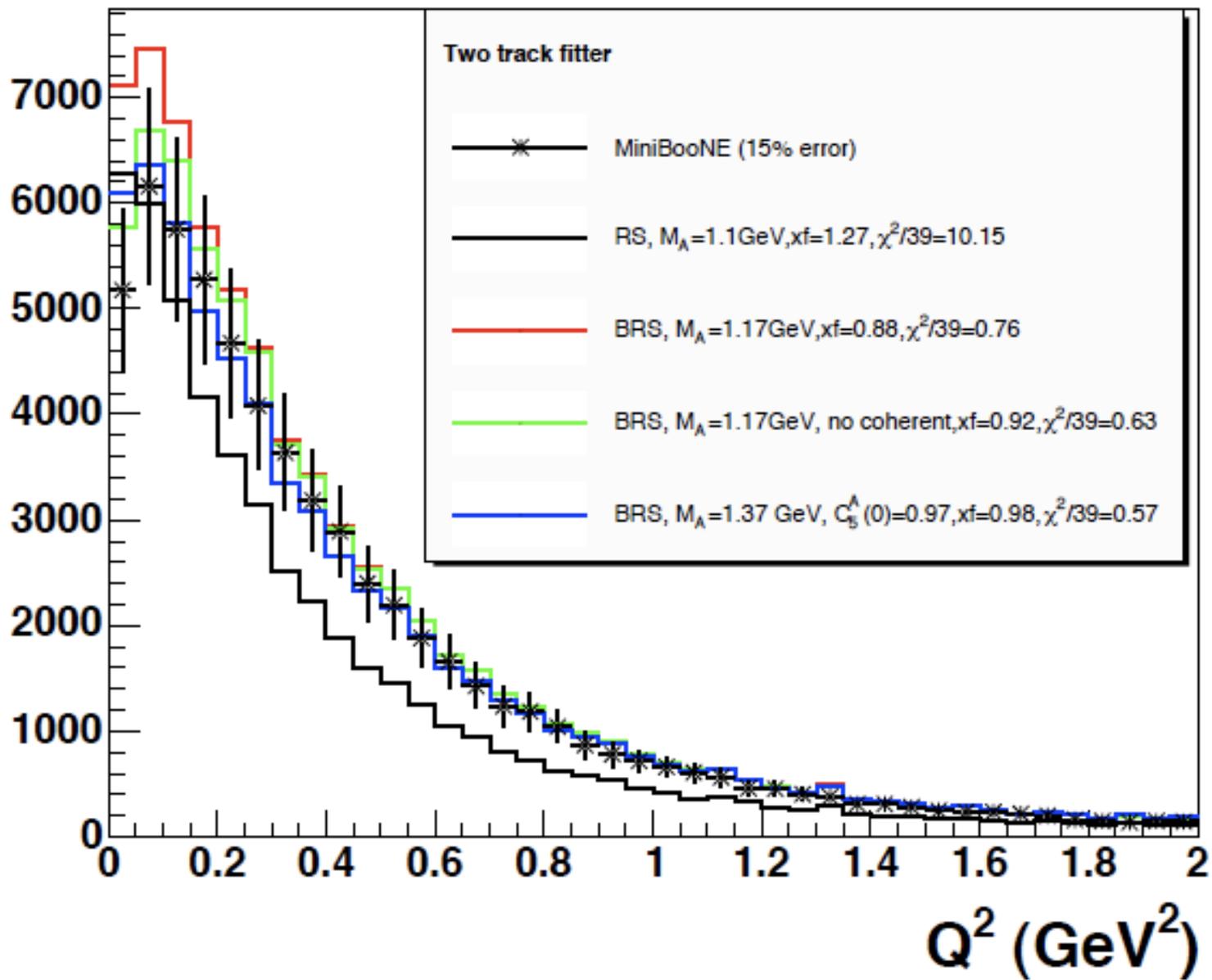


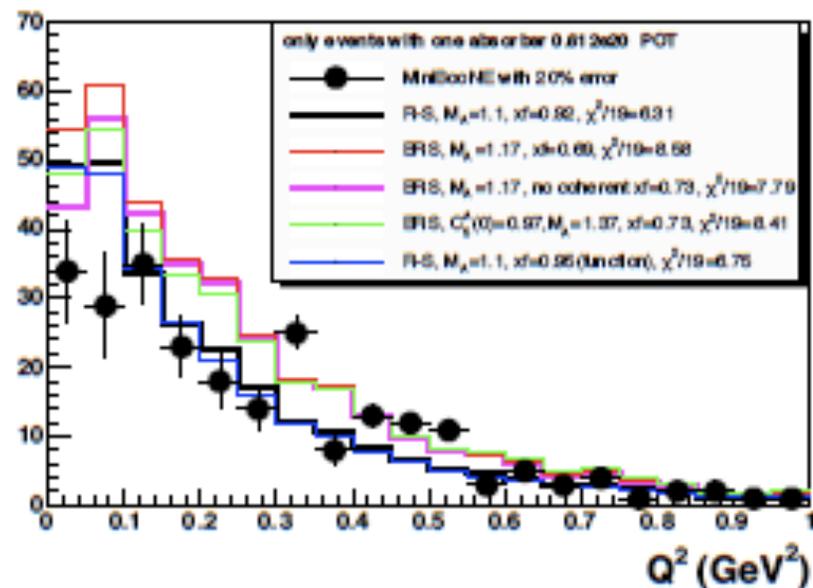
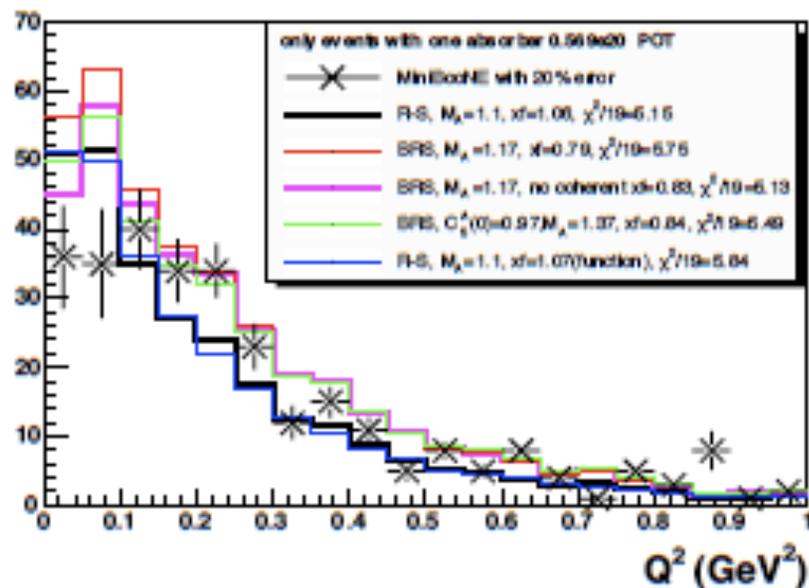
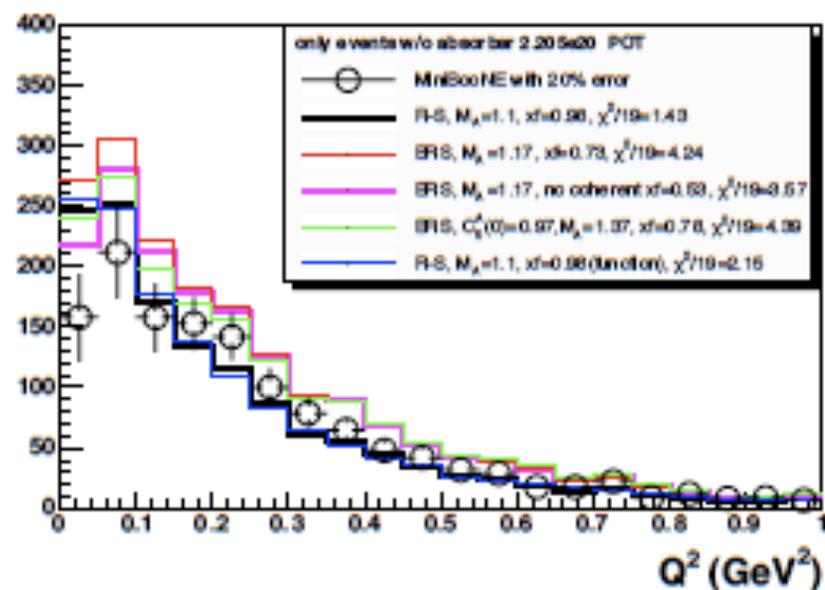
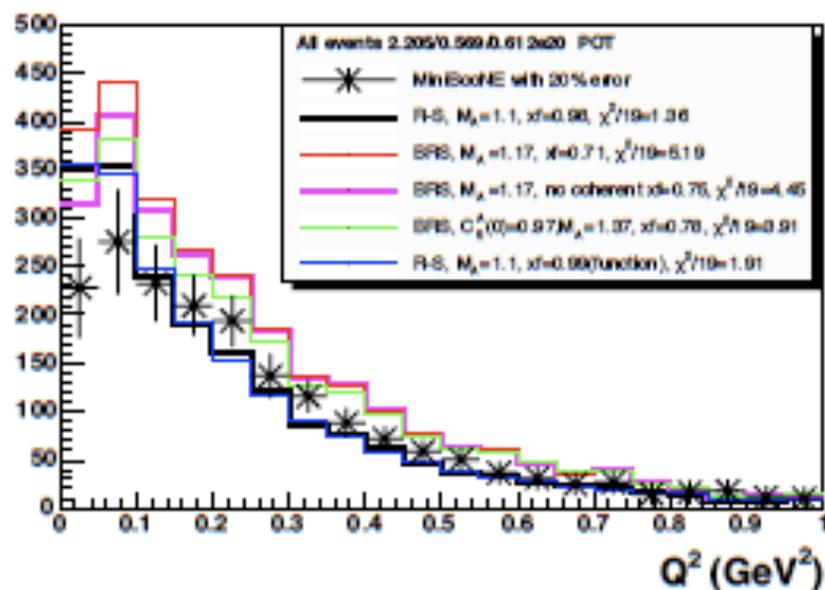
$\chi^2(uz)$  for absolute normalization

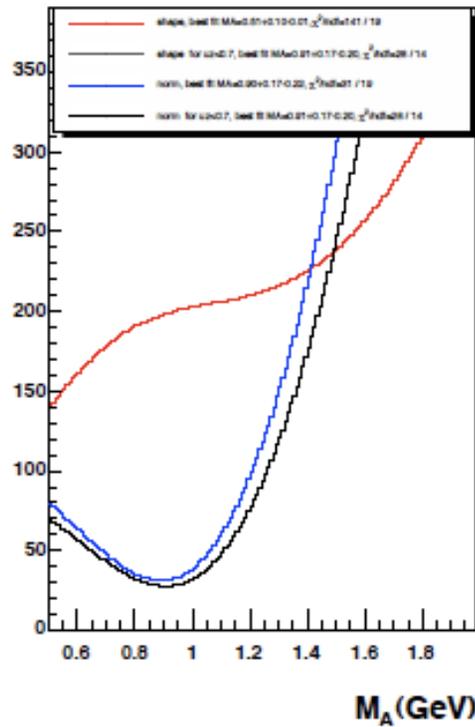
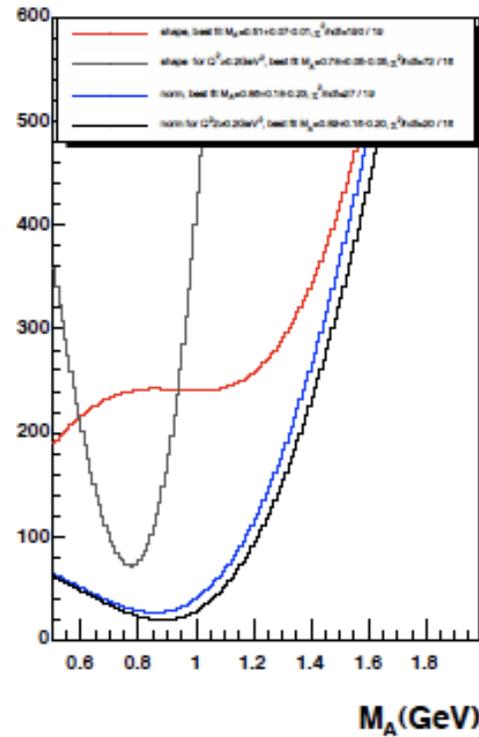




\*  $Q^2$  and  $u_z$  for the best values form fits



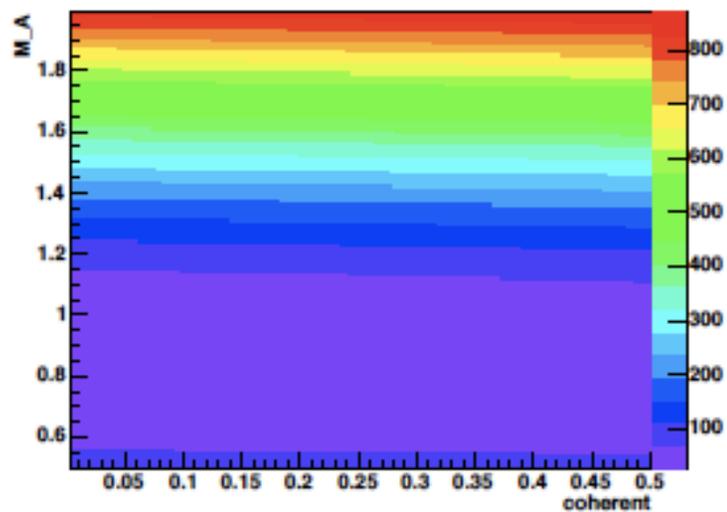


$\chi^2$  for  $\cos\theta$  $\chi^2$  for  $Q^2$ 

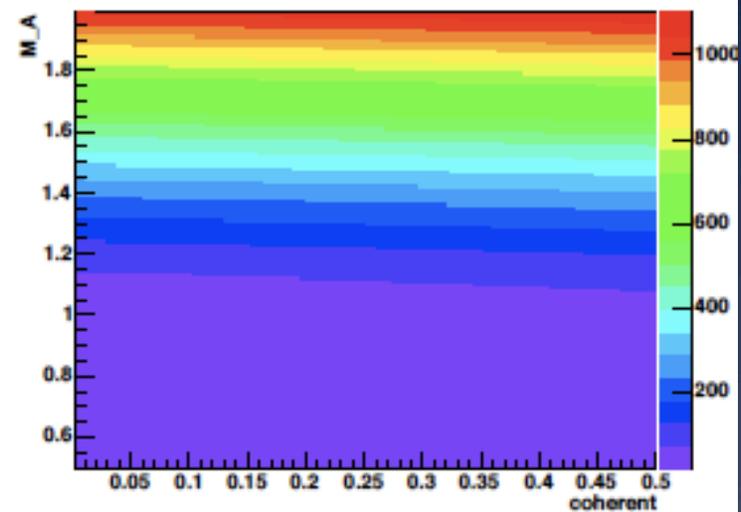
- \* MA fit for the nubar mode
- \* Low MA
- \* Shape fit with coherent production have to global minimum

fit type	best $M_A^{1\pi}$ fit for $Q^2$ with $1-\sigma$ contour	best $M_A^{1\pi}$ or $\cos\theta$ with $1-\sigma$ contour
shape w/o coherent region	$0.78+0.05-0.05$	$0.91+0.17-0.20$
POT normalized	$0.86+0.18-0.23$	$0.90+0.17-0.22$
POT w/o coherent region	$0.89+0.16-0.20$	$0.91+0.17-0.20$

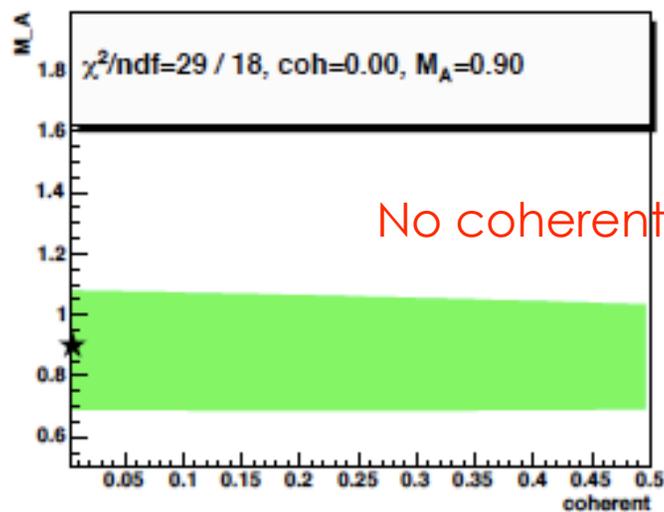
$\chi^2(uz)$  for absolute normalization



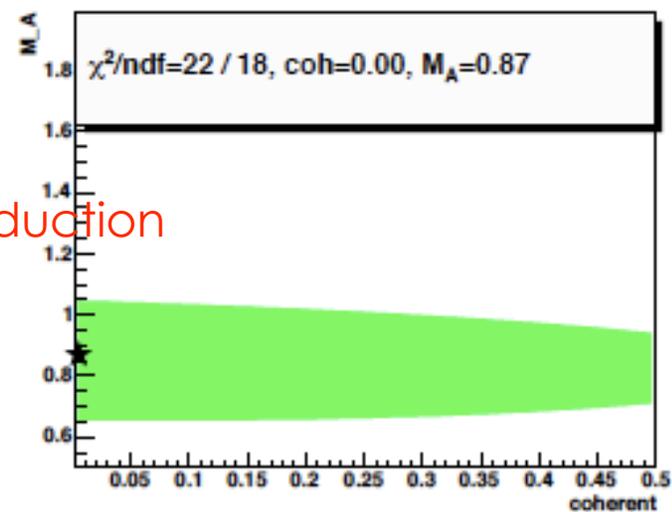
$\chi^2(Q2)$  for absolute normalization



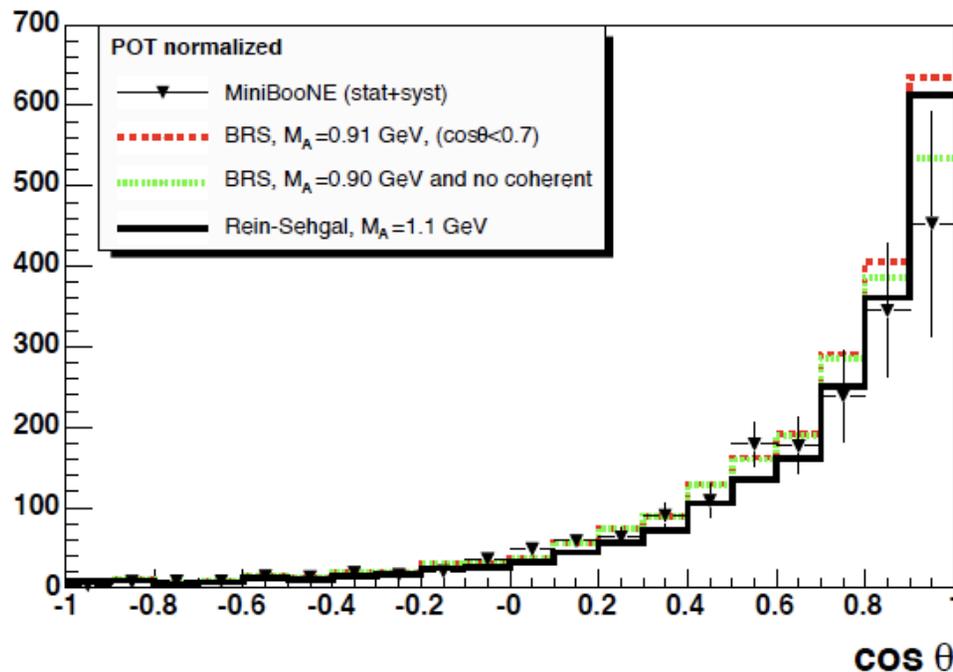
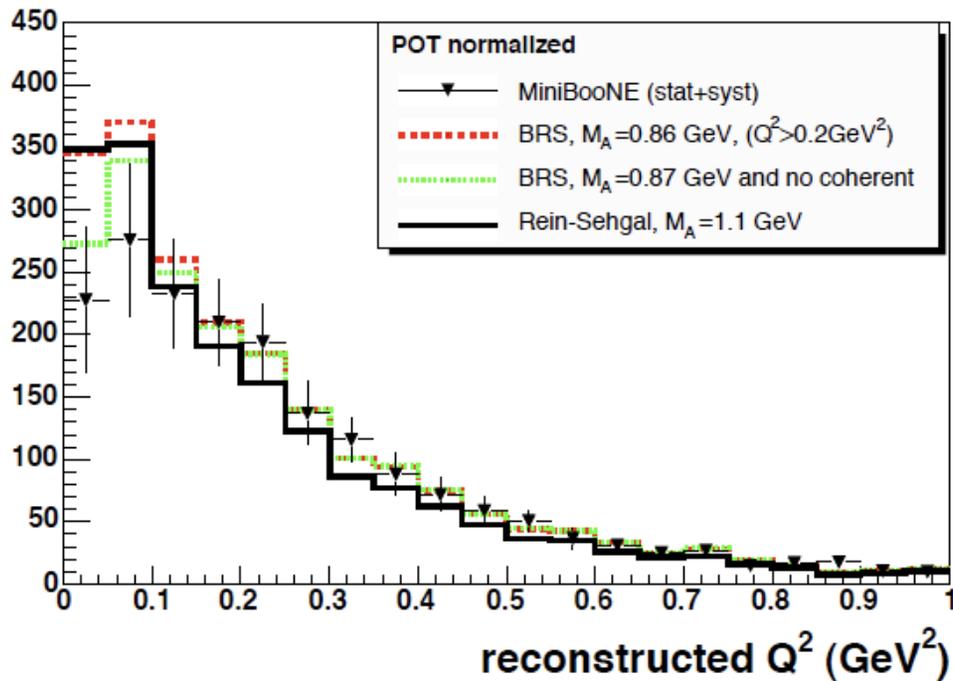
$\chi^2(uz)$  for absolute normalization



$\chi^2(Q2)$  for absolute normalization



No coherent production



# nubar

- \* The MA for nubar mode is lower
- \* To get good agreement with MA from neutrino mode about 25% increase of forward produced pions is required

