

Fit results using pp 2.76 TeV

AN-13-025

Guillermo Breto Rangel

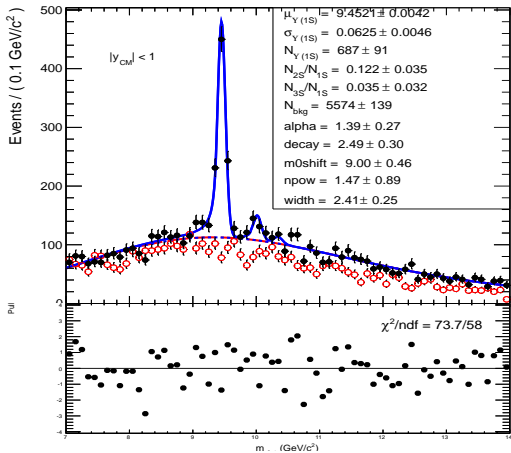
Department of Physics
University of California, Davis
Davis, CA 95615, USA

February 26, 2013

Three γ Peaks

- Strategy = computing the p-value of the likelihood ratio (i.e. testing if xing this or that parameter is significantly improving the ttng-modeling of data).
- The parametrization which is best at improving the t compared to the null hypothesis (i.e. pol2 with all parameters free) will be picked as the best fit. This will be obtained with xing signal shape parameters (width $1S$, alpha, n) to minBias.

Fit results using PbPb data for 2.76 TeV for Min Bias



Fit results using pp data for 2.76 TeV

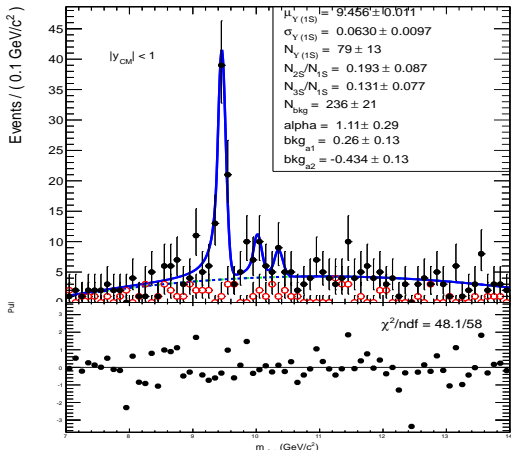
pp-results-276										
filename	Chi2	FreeParam	nDof	Prob(chi2,nd edm)		minNLL	AIC	D	LR	
Poly2AllFree/results.out	51.3835	10	49	0.380519	5.88E-05	-26090.6	-52161.3		0	1
Poly2sigma0624/results.out	53.6423	9	50	0.336485	3.16E-05	-26089.2	-52160.3		-1	0.36787944
Poly2alpha139/results.out	50.7439	9	50	0.444066	9.17E-05	-26090.1	-52162.1		0.8	2.22554093
Poly2npow152/results.out	51.8992	9	50	0.399715	1.28E-05	-26090.5	-52163		1.7	5.47394739
Poly2npowsigma/results.out	58.1709	8	51	0.228266	3.85E-05	-26088	-52159.9		-1.4	0.24659696
Poly2alphasigma/results.out	54.1139	8	51	0.356435	4.56E-05	-26089	-52162.1		0.8	2.22554093
Poly2alphanpow/results.out	58.43	8	51	0.221238	0.00010023	-26085.1	-52154.2		-7.1	0.0008251
Poly2AllFixed/results.out	61.1375	7	52	0.180662	3.91E-07	-26084.3	-52154.5		-6.8	0.00111378

Strategy for picking nominal fit

Part A (Second Order polynomial)

Part B (Fixing n_{pow})

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Conclusions

- Results for me stayed the same.
- Part A is 2^{nd} order of the polynomial.
- Part B is fixing n_{pow}