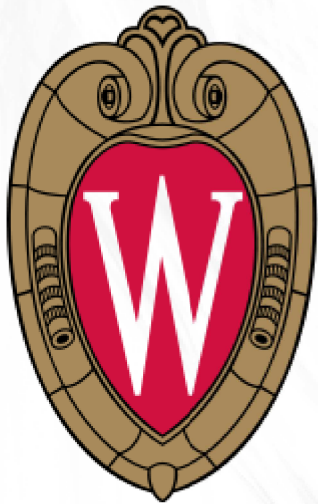


W W + 2 jets Analysis



THE UNIVERSITY
of
WISCONSIN
MADISON



Will Parker

University of Wisconsin – Madison

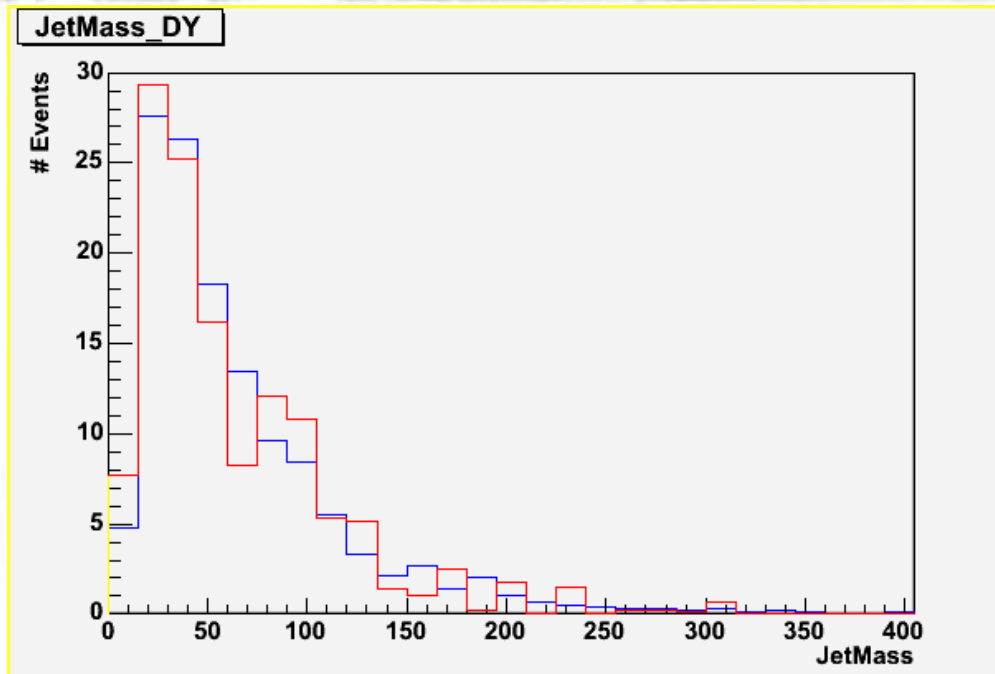
11/07/11

W W + 2 Jets Analysis

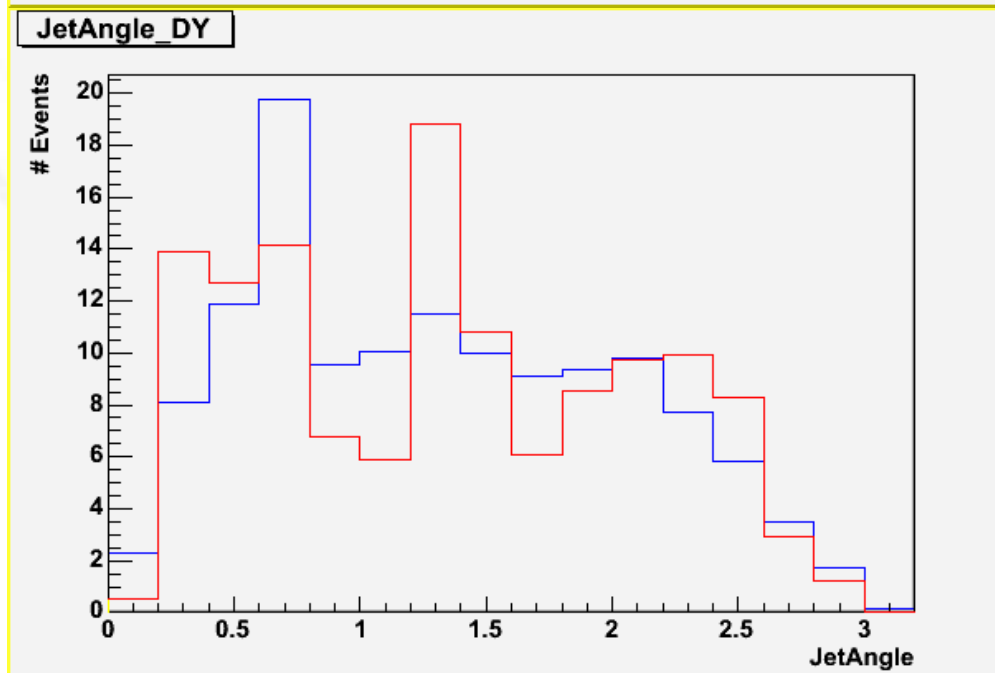
- Drell-Yan rescaling was not needed
 - Last week's plots are valid
- Compared old MC to Alpgen
 - DY
 - WZ
 - ZZ
- Studying and preparing slides for prelim

Drell-Yan Comparison

$M(jj)$



Opening
angle of
first two
jets



Notes:

Red=Old MC

Blue=Alpgen

Arbitrary

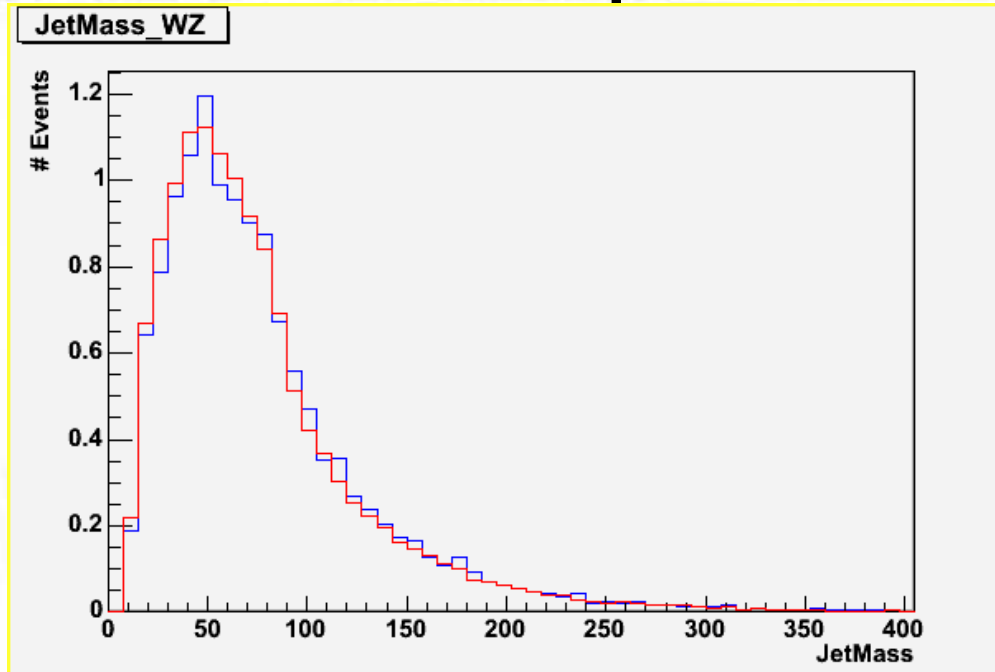
Normalization

Low statistics
in old MC

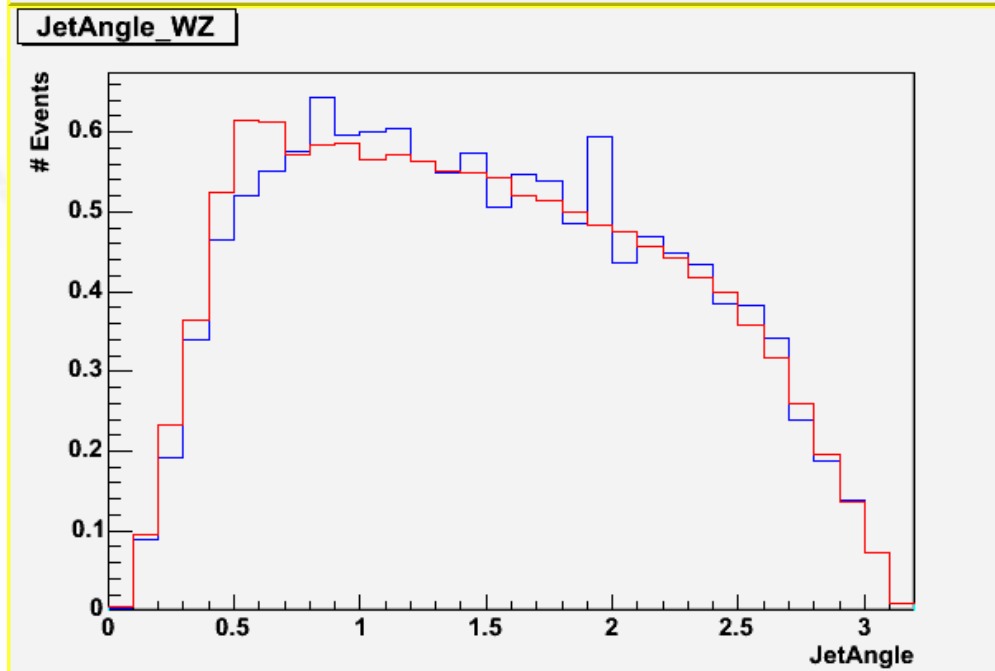
Planning to
compare in the
DY control
region as well

WZ Comparison

$M(jj)$



Opening
angle of
first two
jets



Notes:

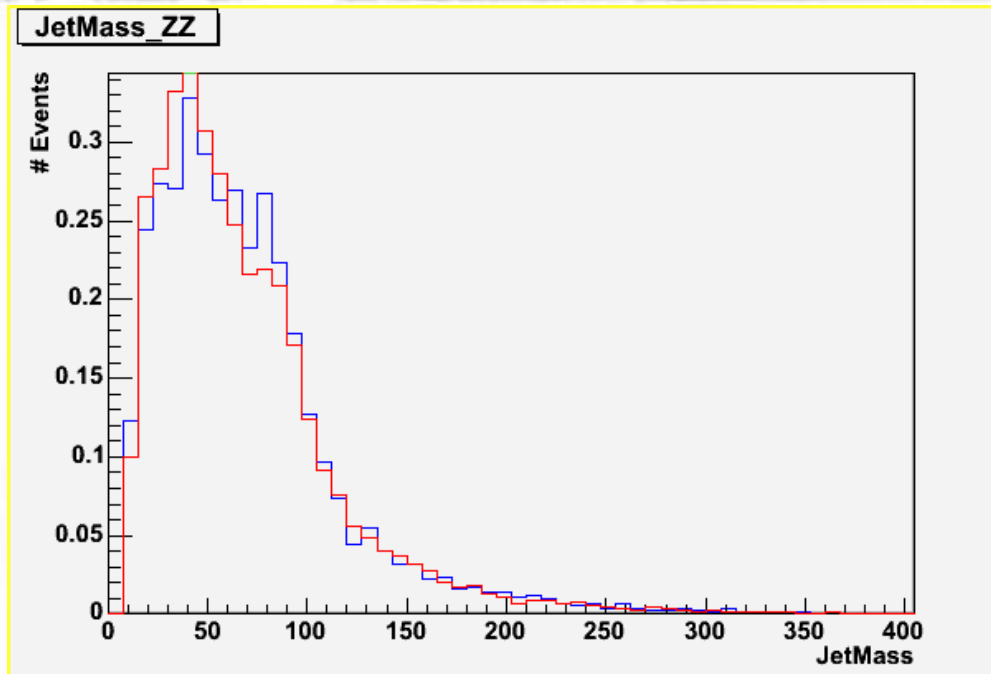
Red=Old MC

Blue=Alpgen

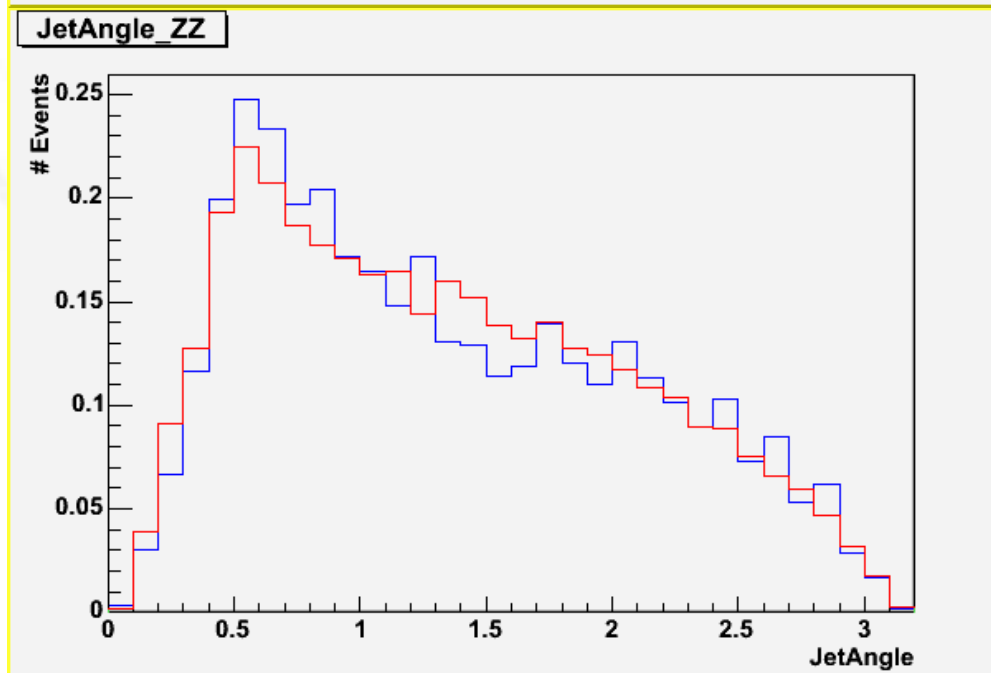
Arbitrary
Normalization

ZZ Comparison

$M(jj)$



Opening
angle of
first two
jets



Notes:

Red=Old MC

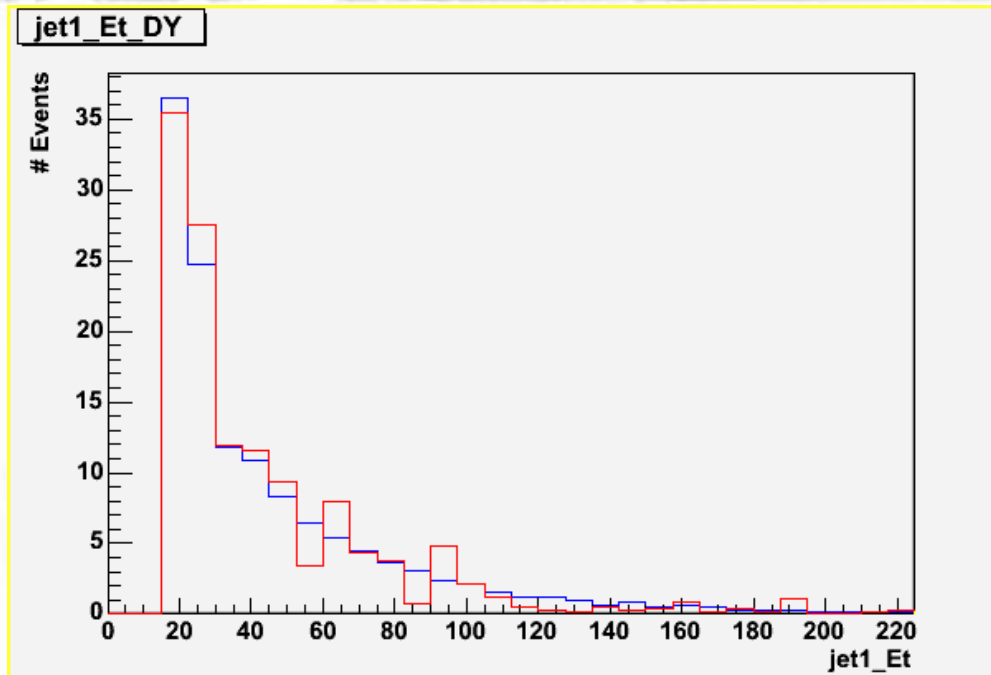
Blue=Alpgen

Arbitrary
Normalization

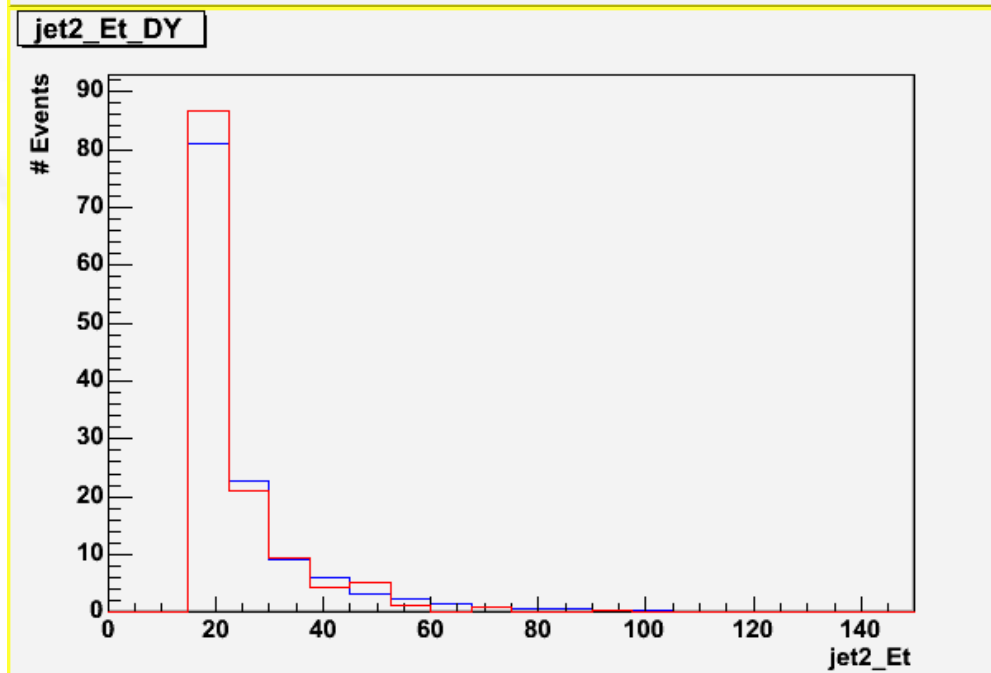
Backup: More Alpgen Comparisons

Drell-Yan Comparison

Leading
Jet Et



Second
Jet Et



Notes:

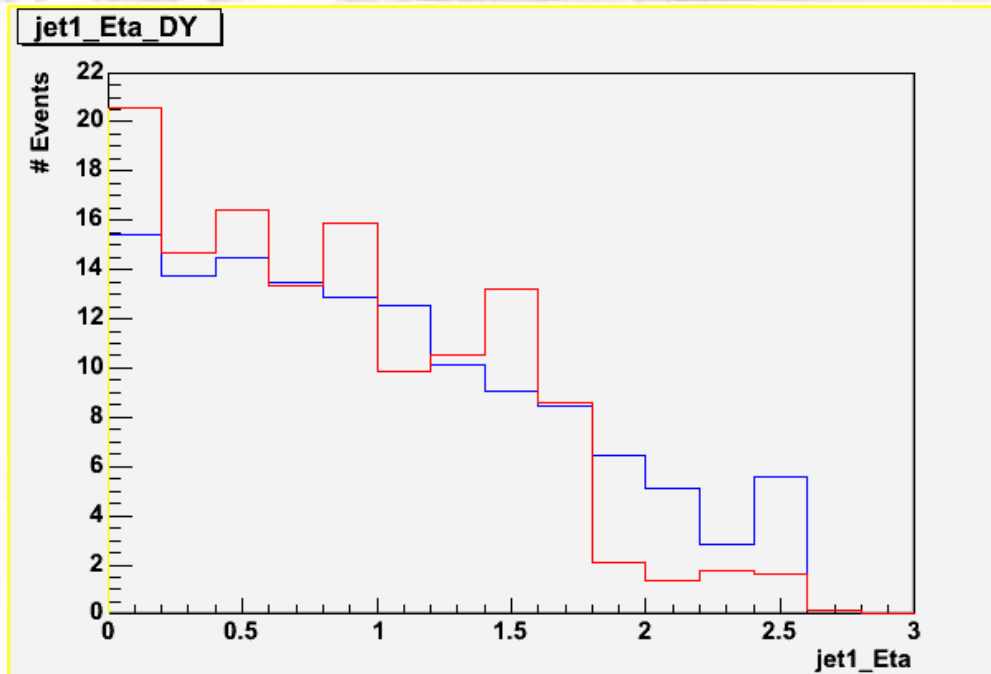
Red=Old MC

Blue=Alpgen

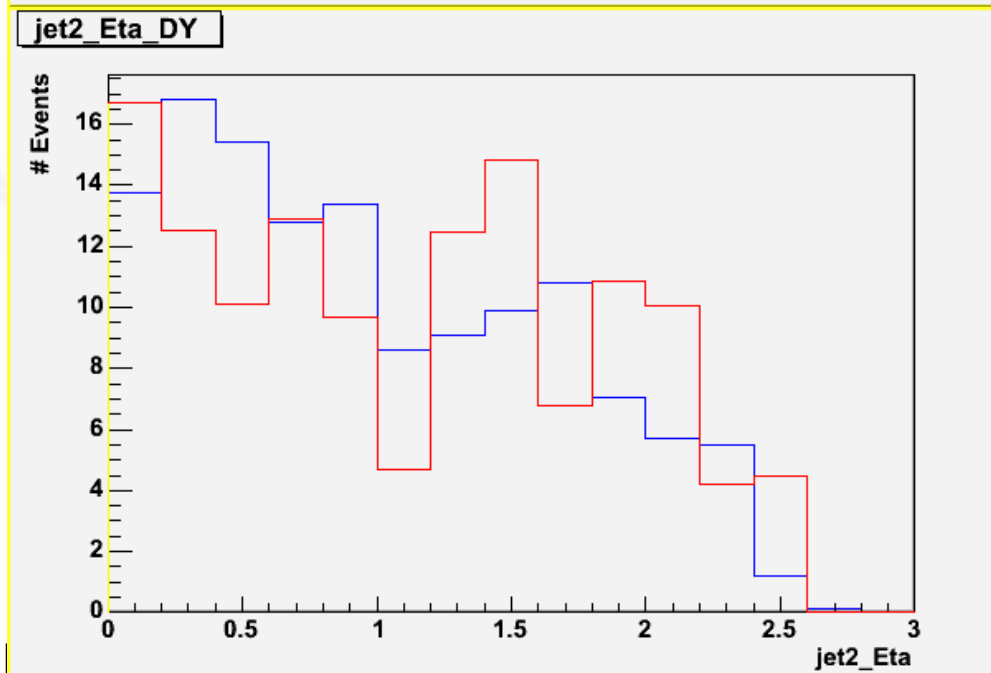
Arbitrary
Normalization

Drell-Yan Comparison

Leading
Jet Eta



Second
Jet Eta



Notes:

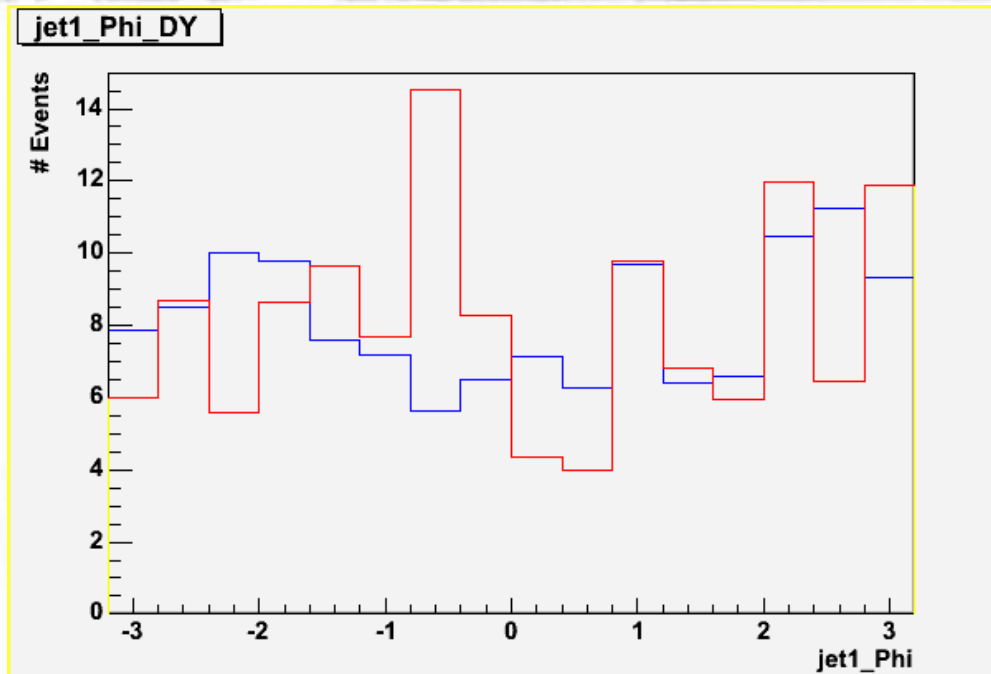
Red=Old MC

Blue=Alpgen

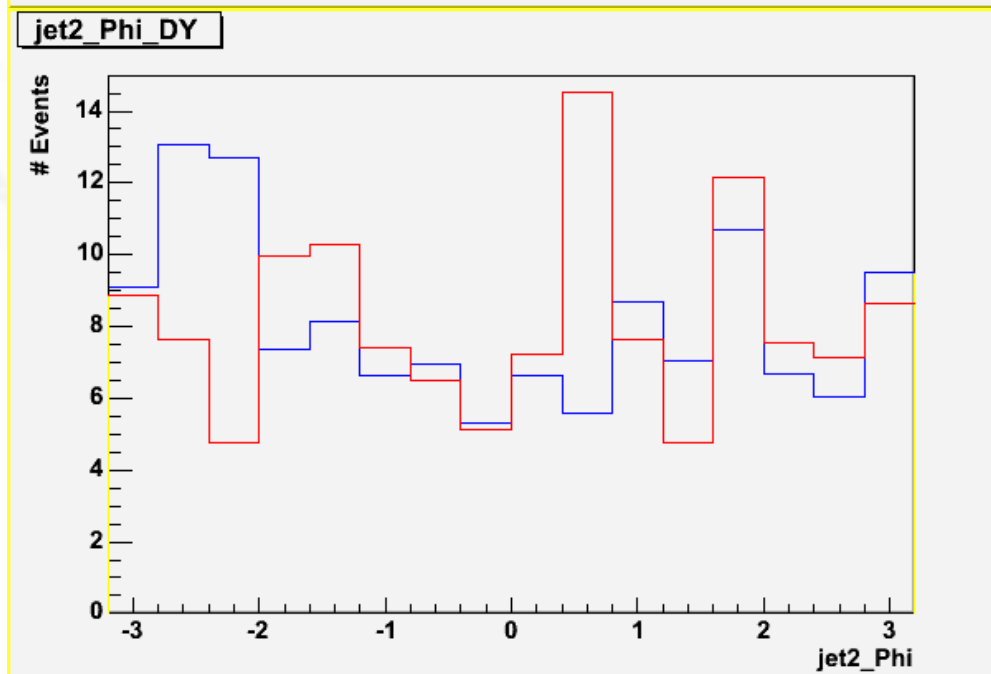
Arbitrary
Normalization

Drell-Yan Comparison

Leading
Jet Phi



Second
Jet Phi



Notes:

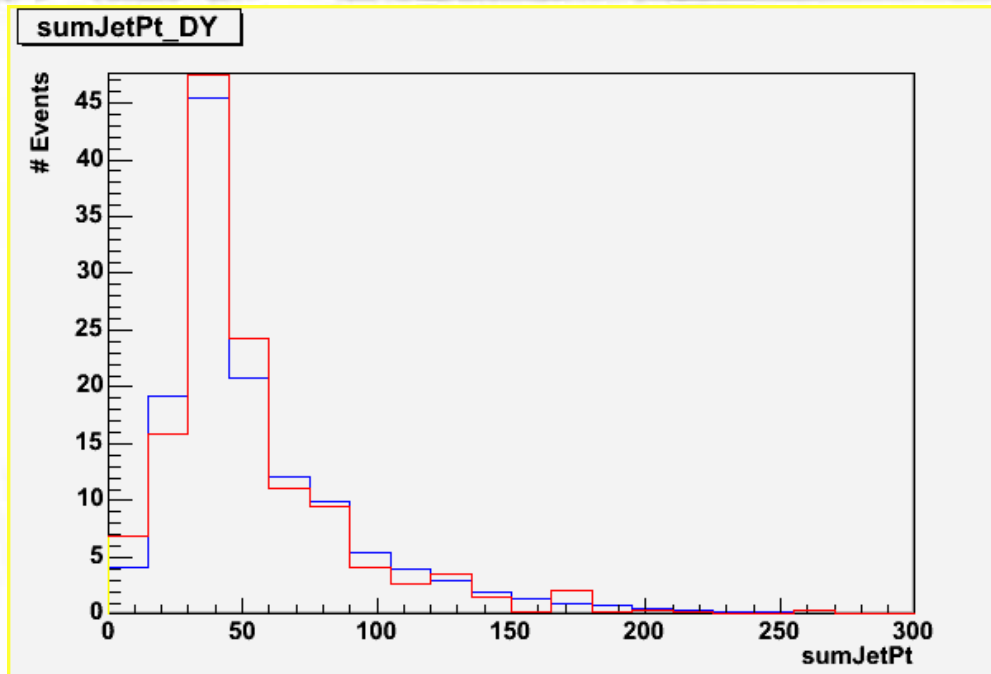
Red=Old MC

Blue=Alpgen

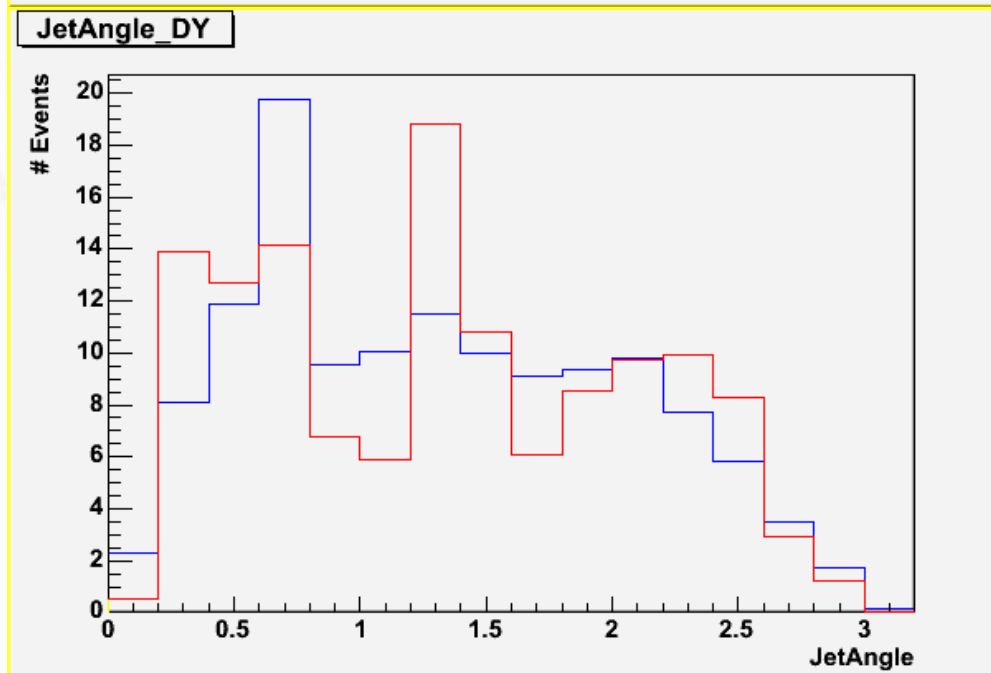
Arbitrary
Normalization

Drell-Yan Comparison

Sum of
first two jet
Pt's



Opening
angle of
first two
jets



Notes:

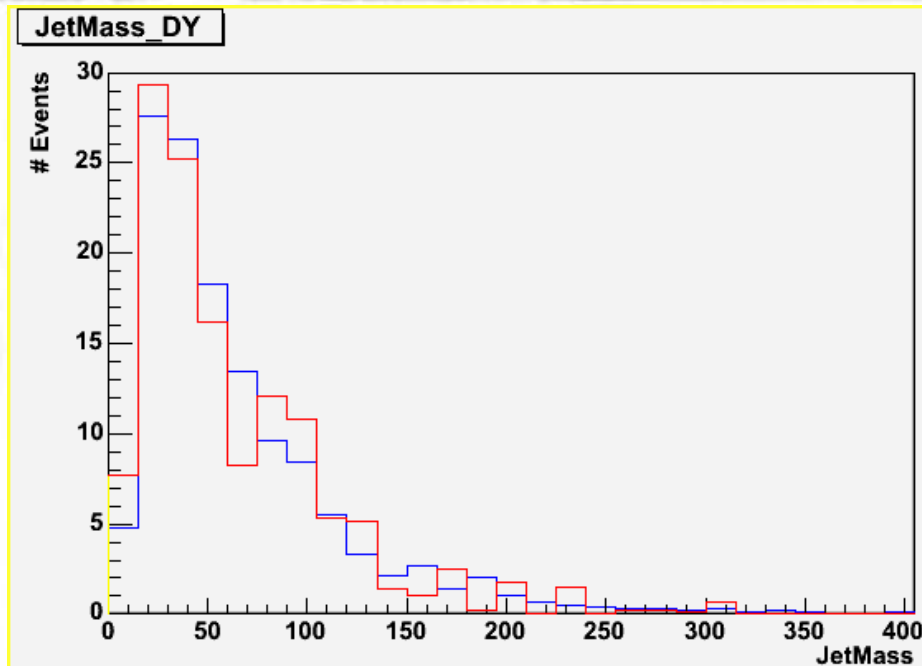
Red=Old MC

Blue=Alpgen

Arbitrary
Normalization

Drell-Yan Comparison

$M(jj)$



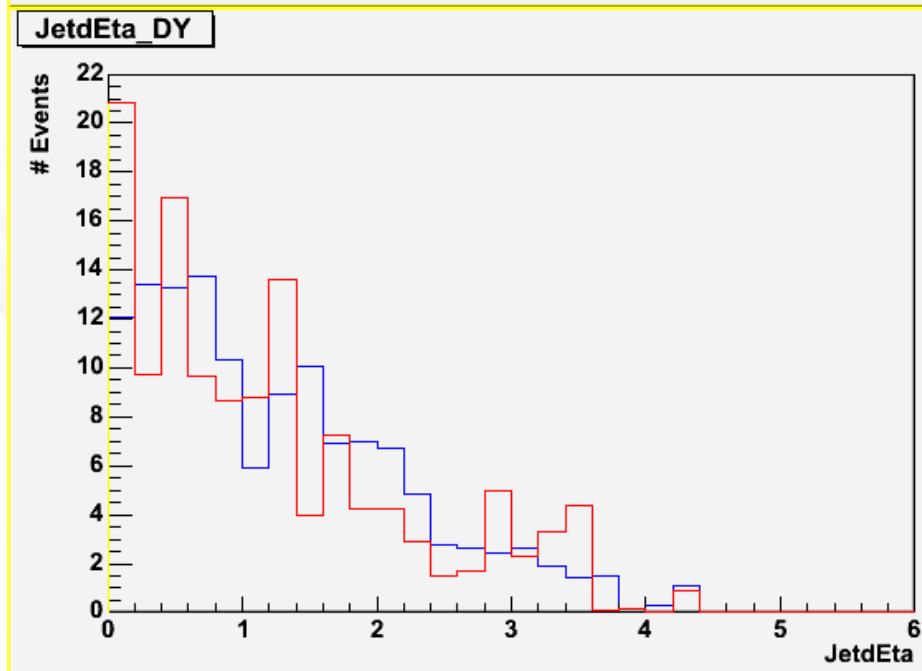
Notes:

Red=Old MC

Blue=Alpgen

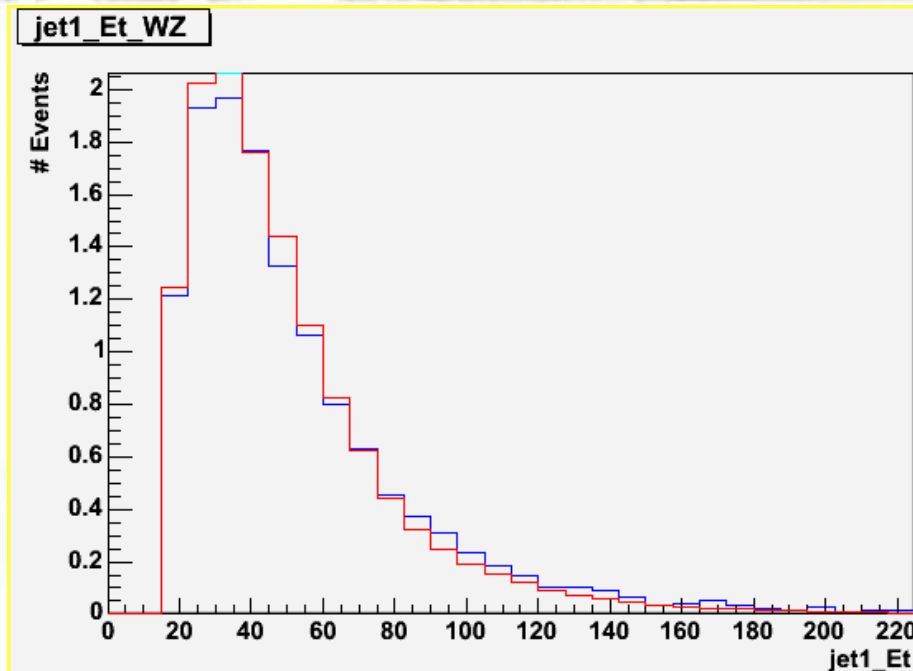
Arbitrary
Normalization

$\eta(\text{jet1}) - \eta(\text{jet2})$

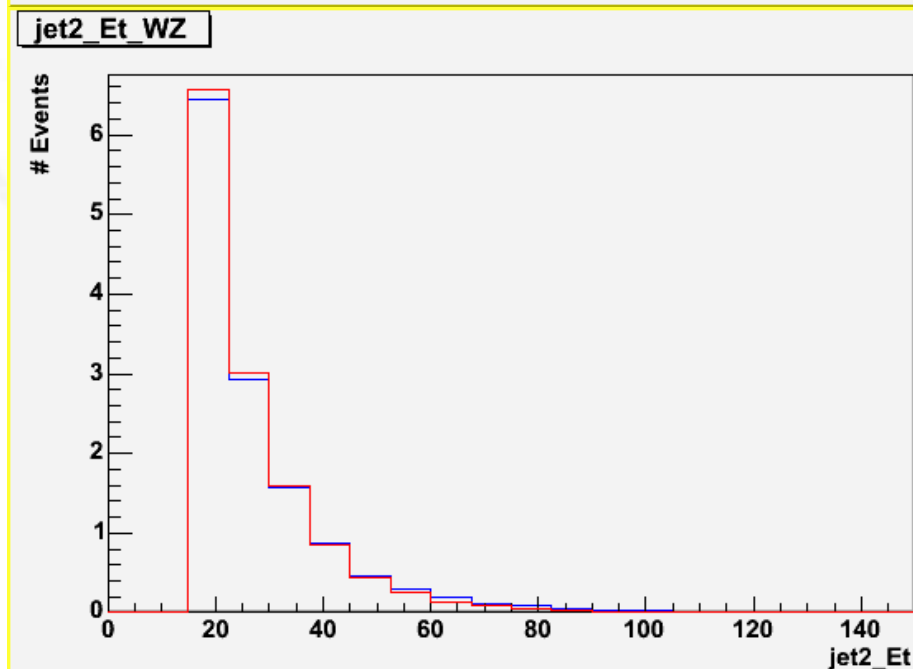


WZ Comparison

Leading
Jet Et



Second
Jet Et



Notes:

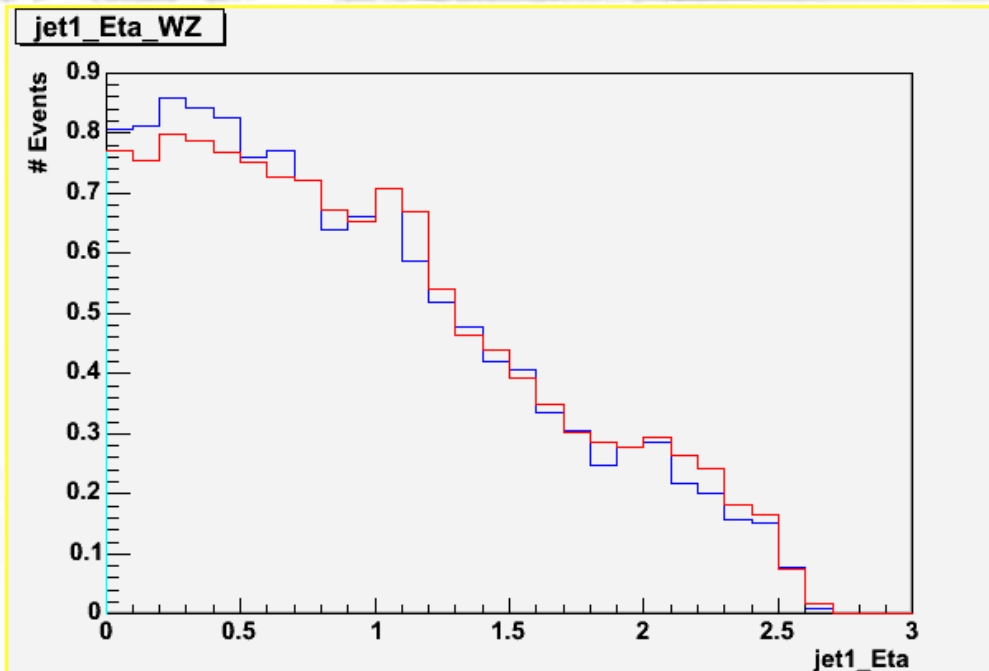
Red=Old MC

Blue=Alpgen

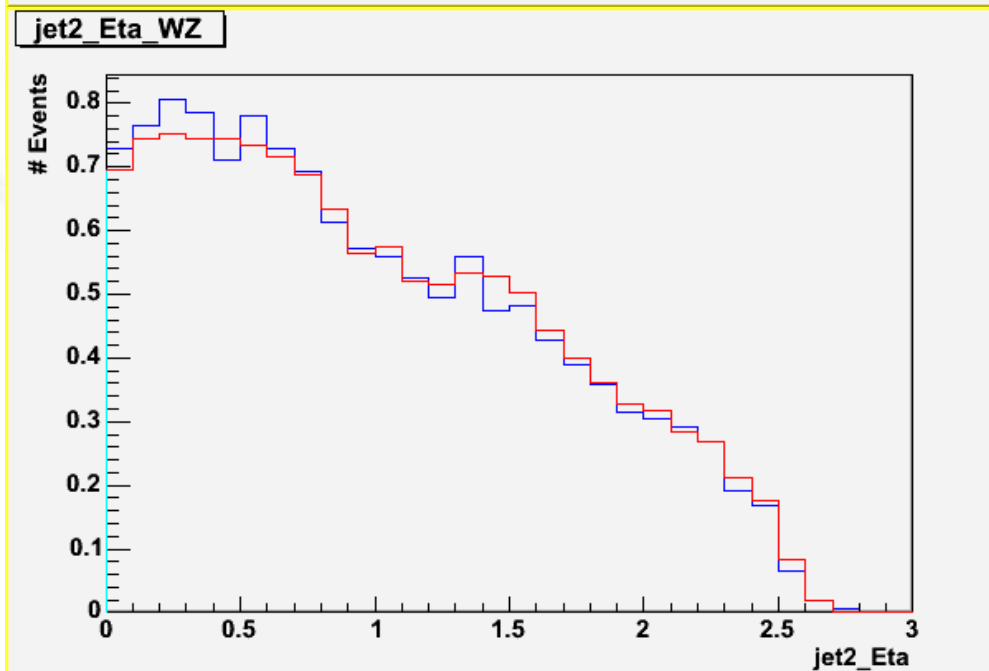
Arbitrary
Normalization

WZ Comparison

Leading
Jet Eta



Second
Jet Eta



Notes:

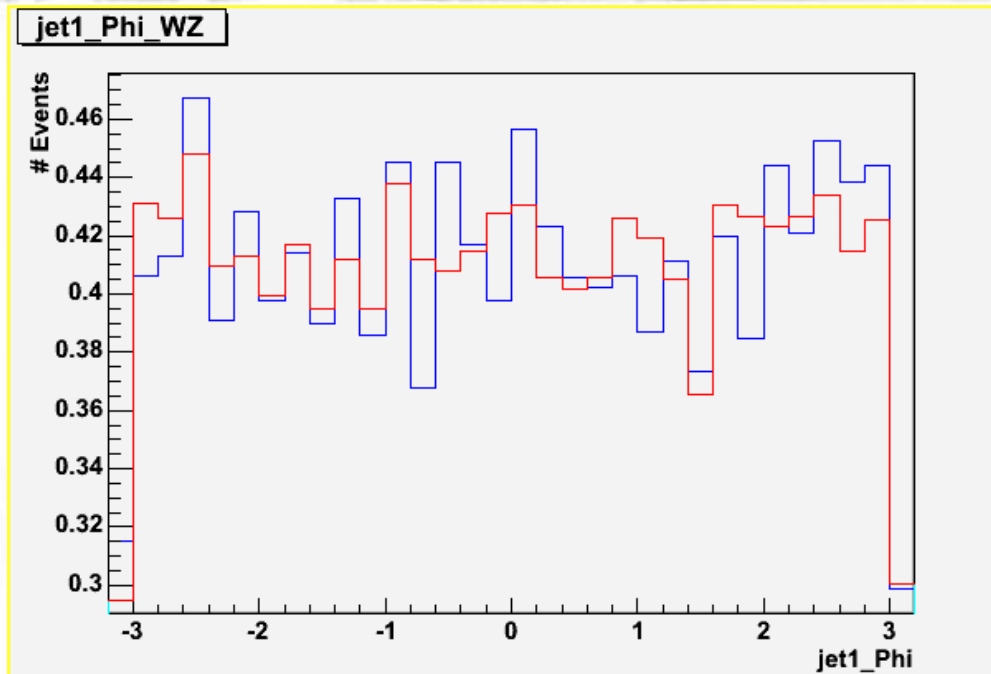
Red=Old MC

Blue=Alpgen

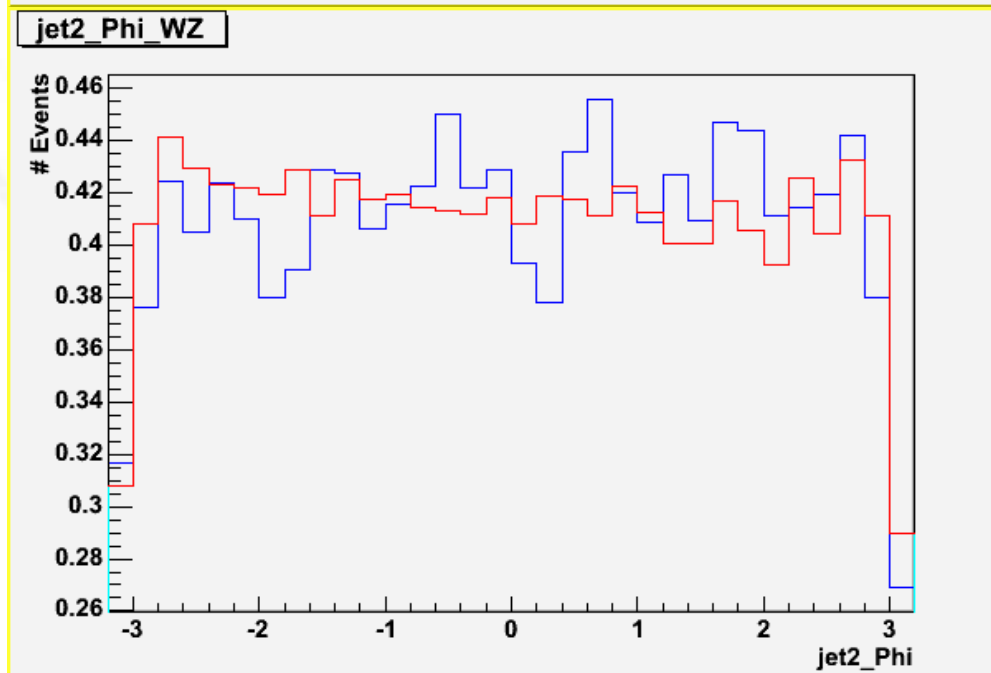
Arbitrary
Normalization

WZ Comparison

Leading
Jet Phi



Second
Jet Phi



Notes:

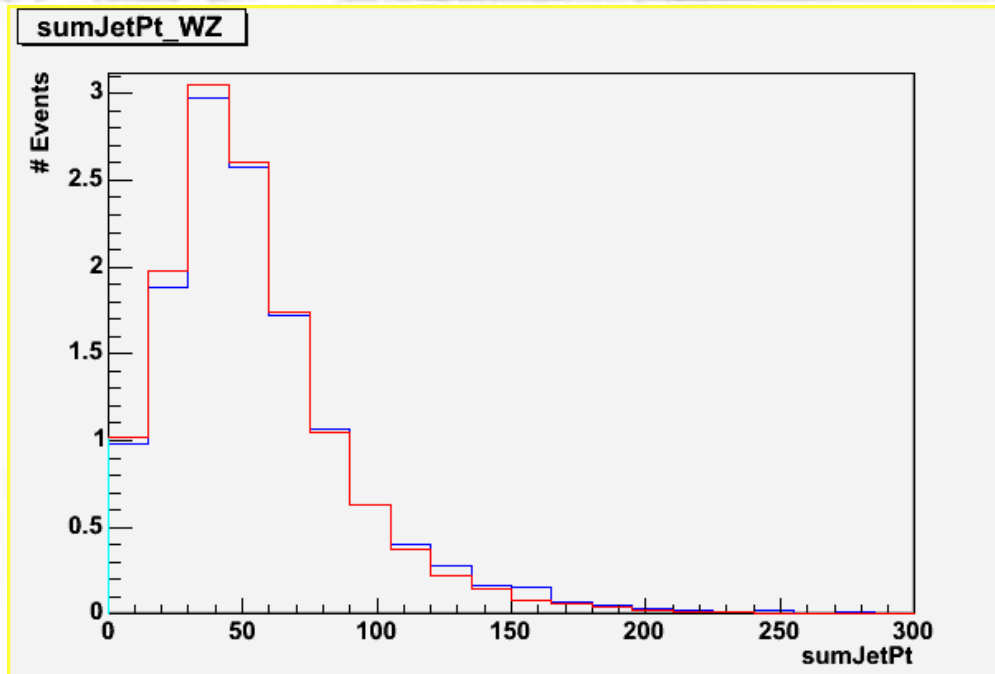
Red=Old MC

Blue=Alpgen

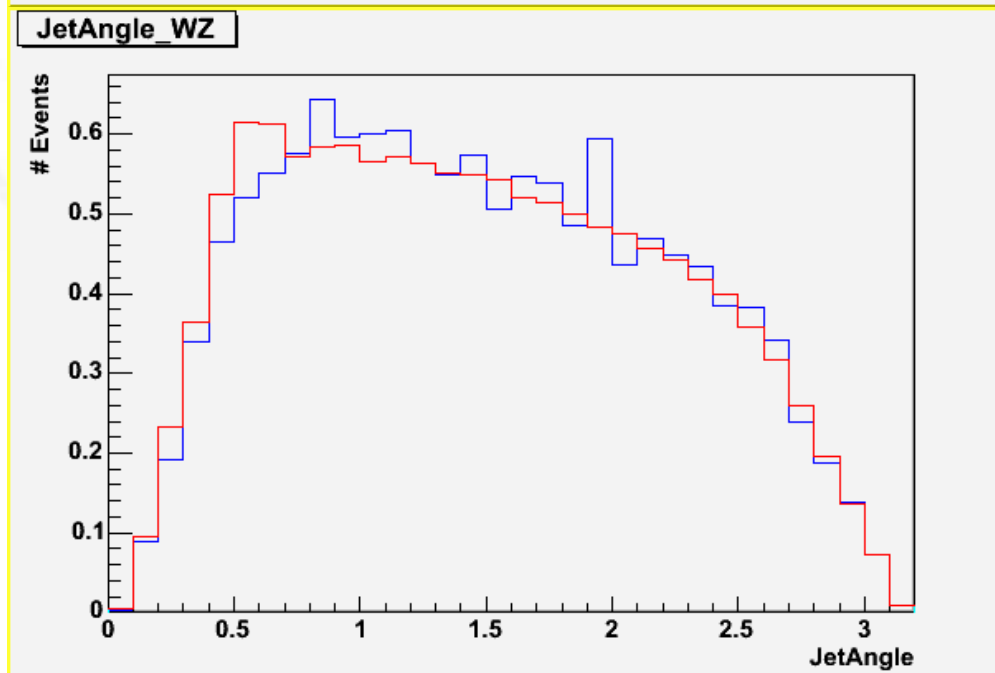
Arbitrary
Normalization

WZ Comparison

Sum of
first two jet
Pt's



Opening
angle of
first two
jets



Notes:

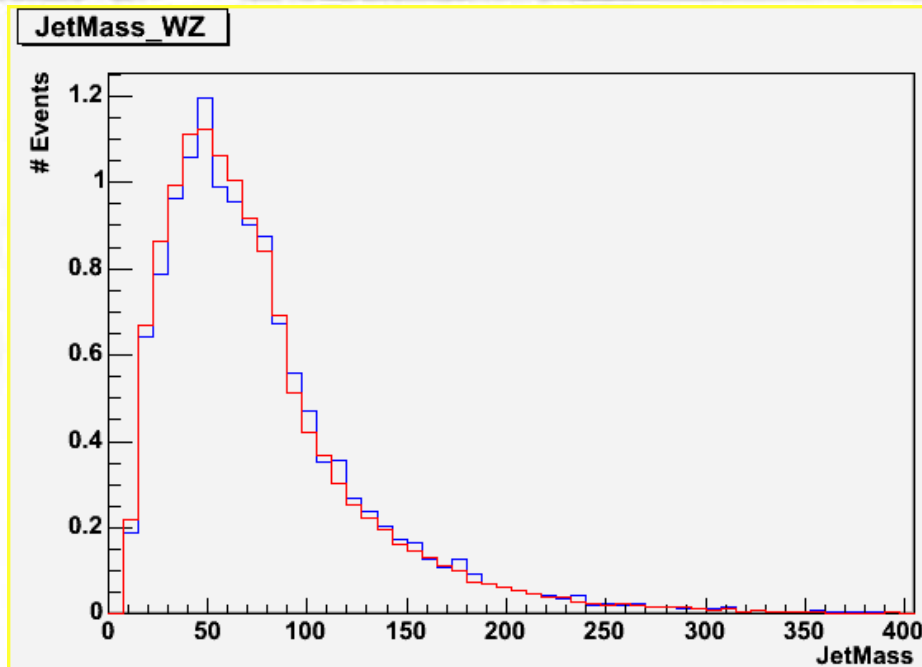
Red=Old MC

Blue=Alpgen

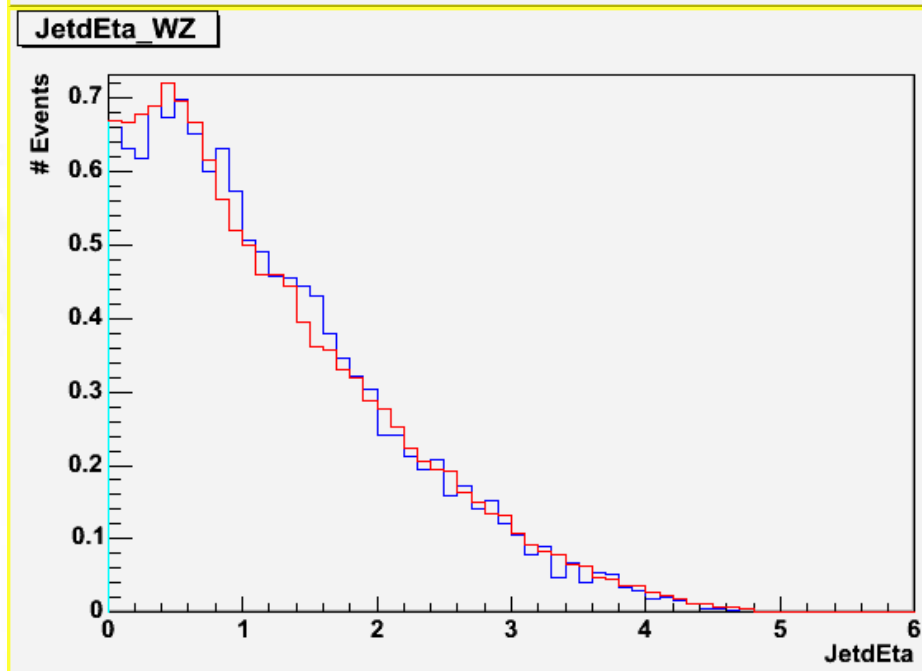
Arbitrary
Normalization

WZ Comparison

$M(jj)$



$\eta(\text{jet1}) - \eta(\text{jet2})$



Notes:

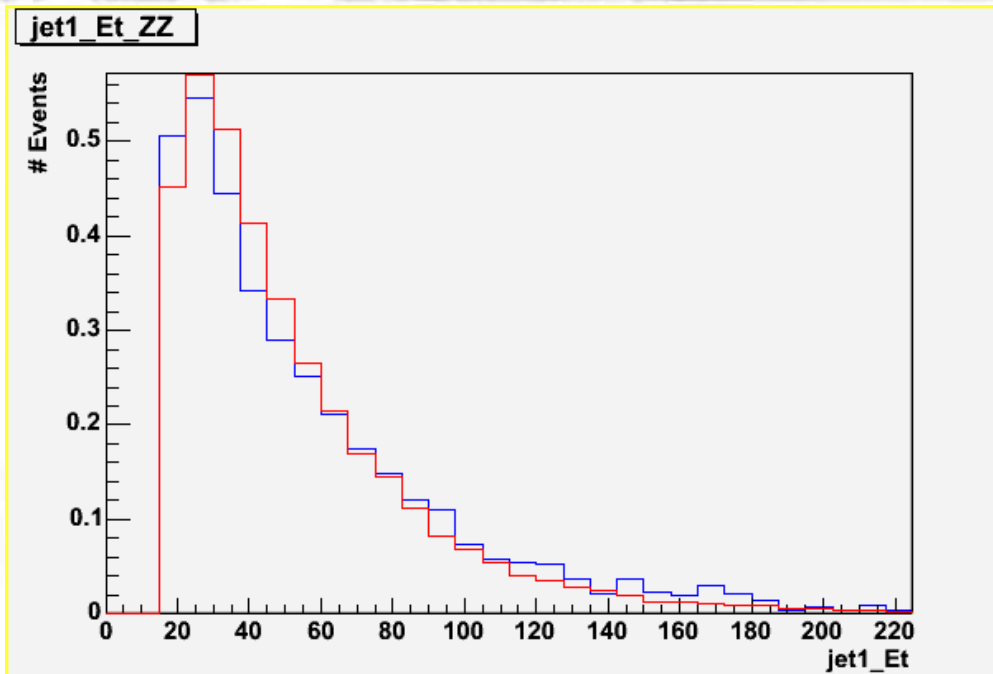
Red=Old MC

Blue=Alpgen

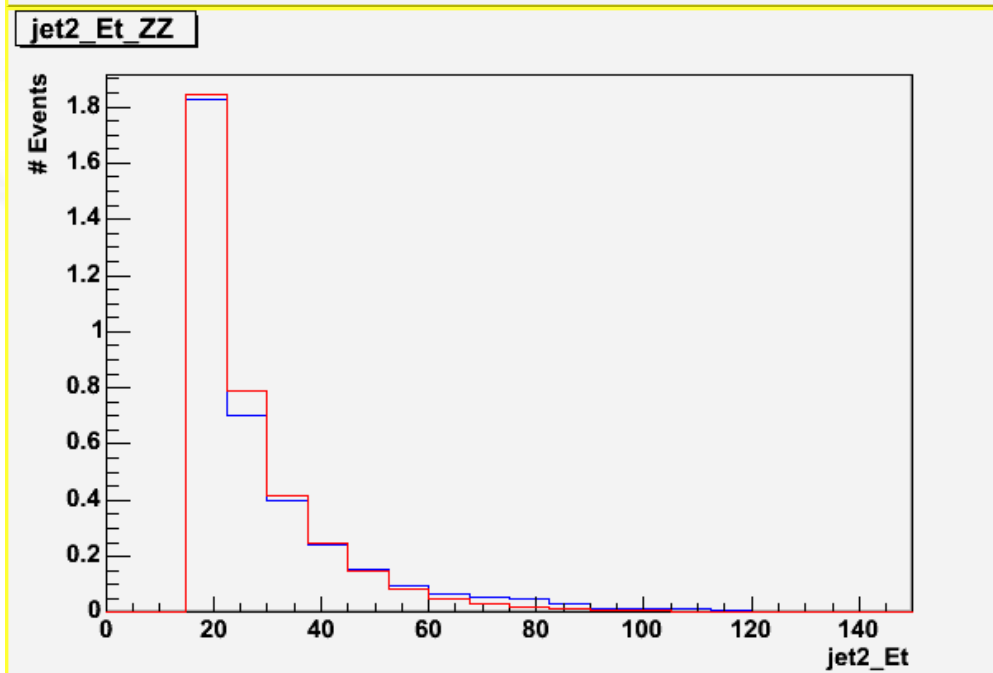
Arbitrary
Normalization

ZZ Comparison

Leading
Jet Et



Second
Jet Et



Notes:

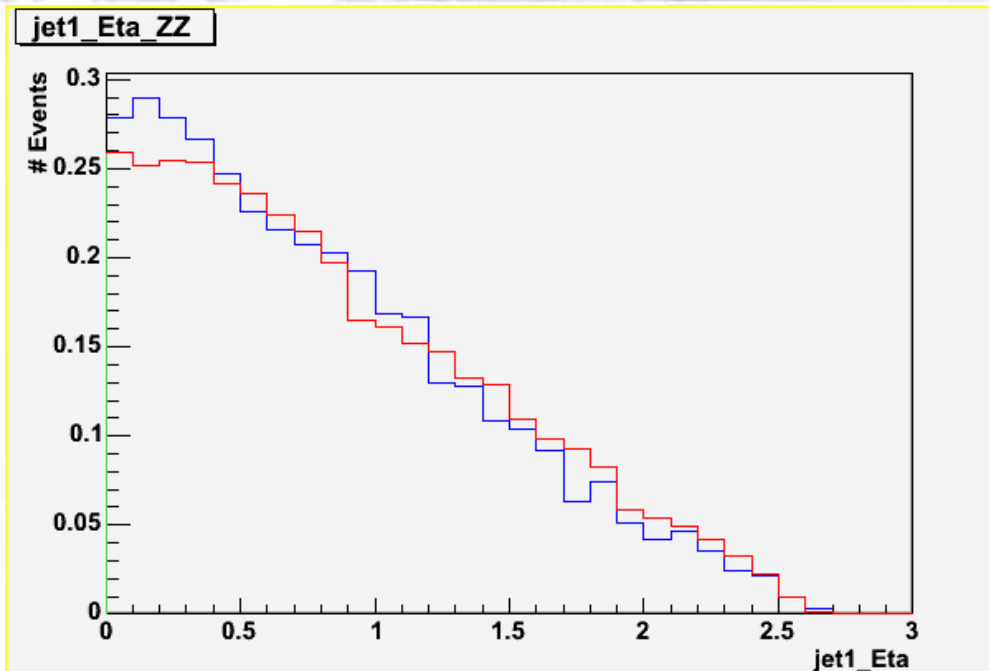
Red=Old MC

Blue=Alpgen

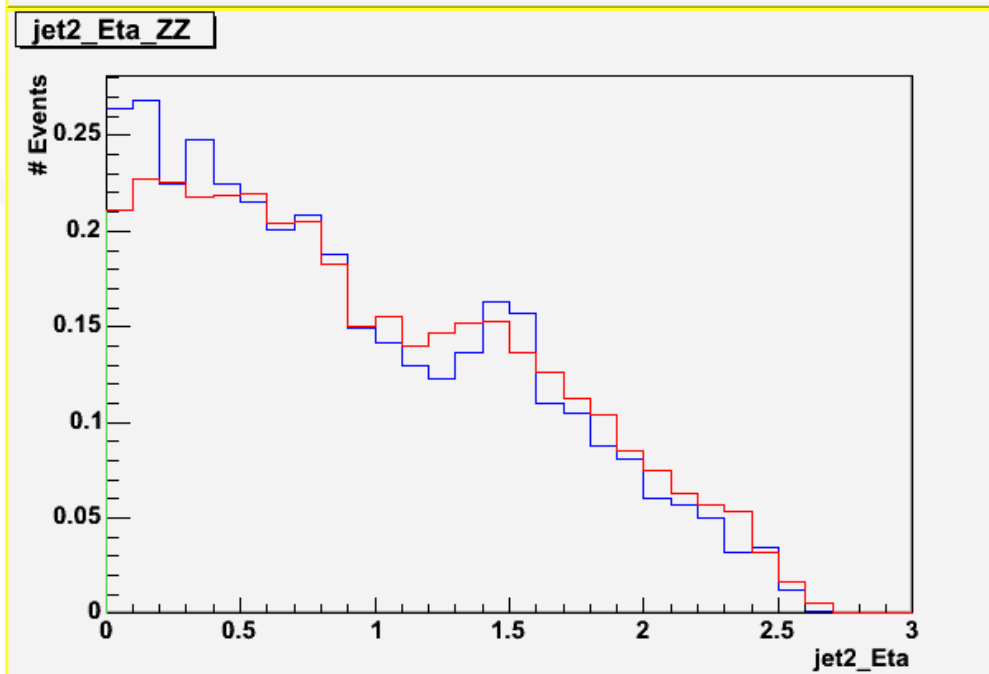
Arbitrary
Normalization

ZZ Comparison

Leading
Jet Eta



Second
Jet Eta



Notes:

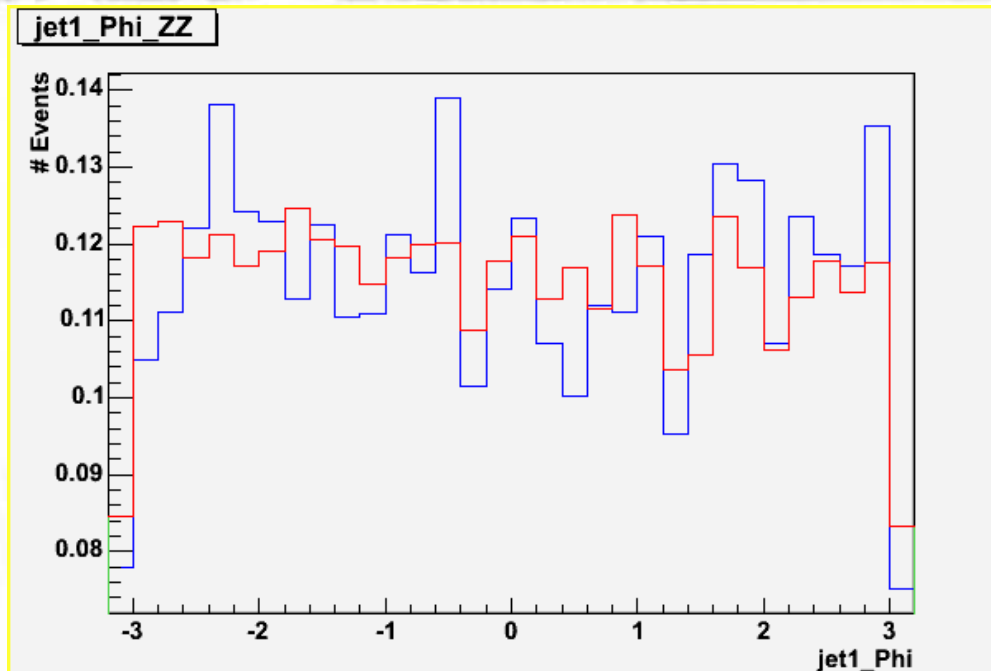
Red=Old MC

Blue=Alpgen

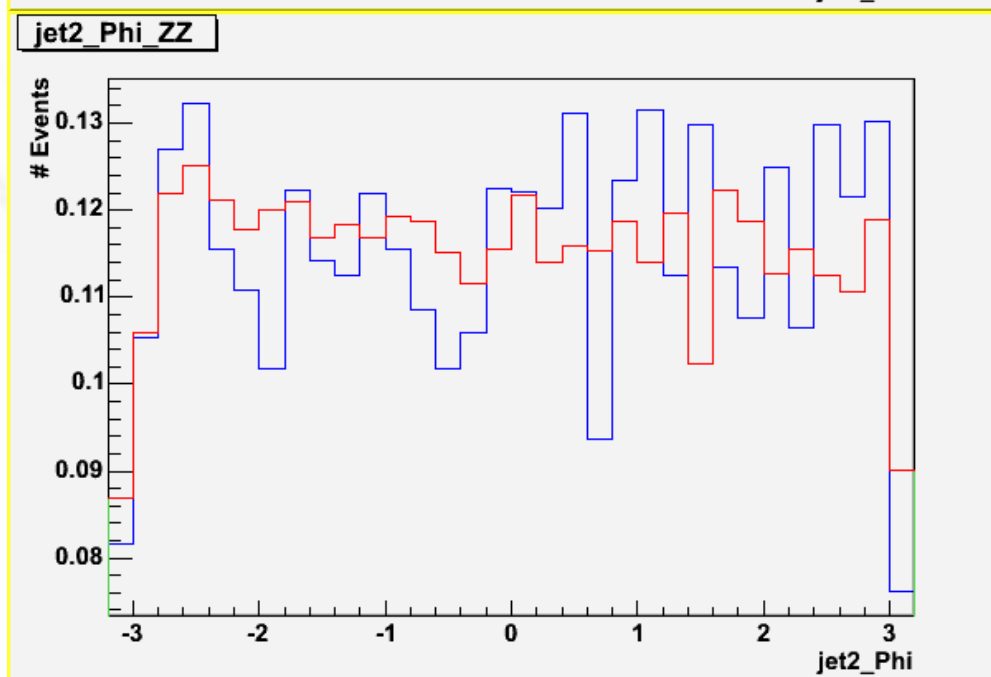
Arbitrary
Normalization

ZZ Comparison

Leading
Jet Phi



Second
Jet Phi



Notes:

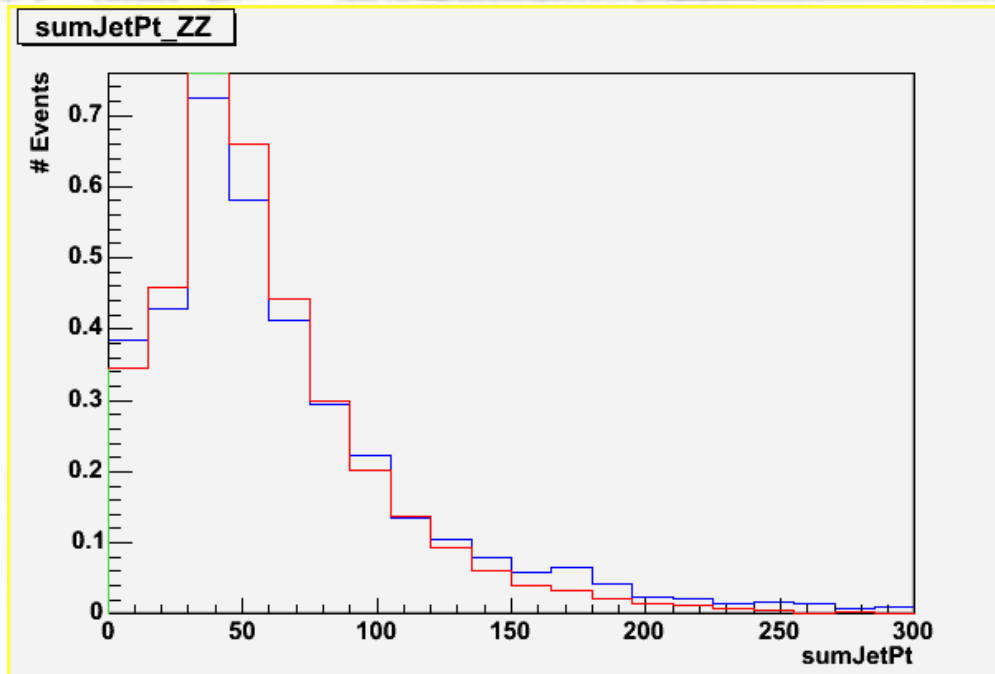
Red=Old MC

Blue=Alpgen

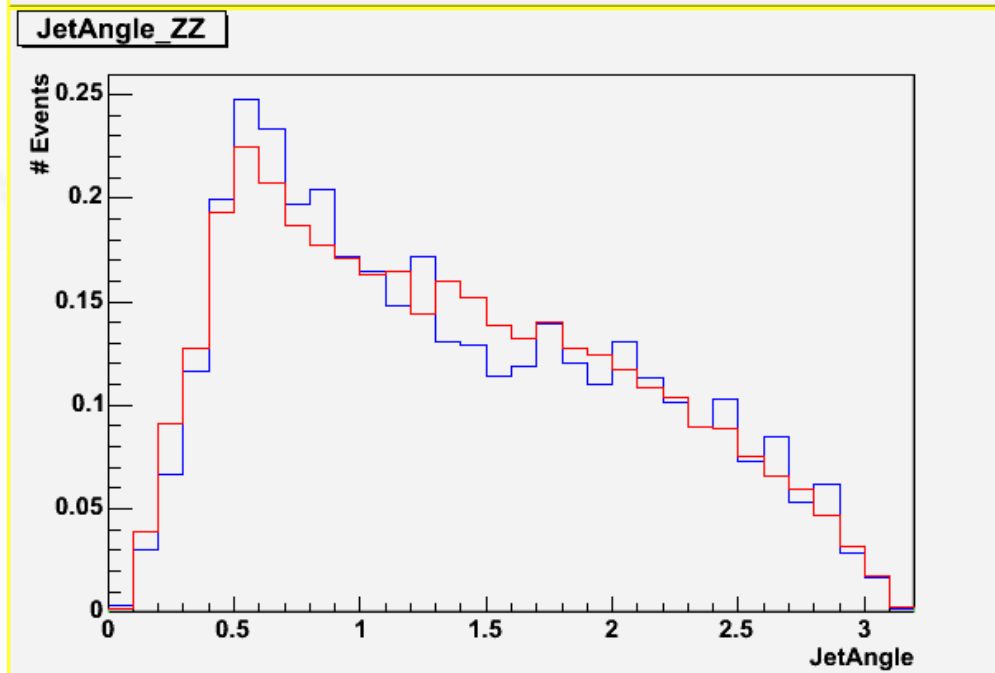
Arbitrary
Normalization

ZZ Comparison

Sum of
first two jet
Pt's



Opening
angle of
first two
jets



Notes:

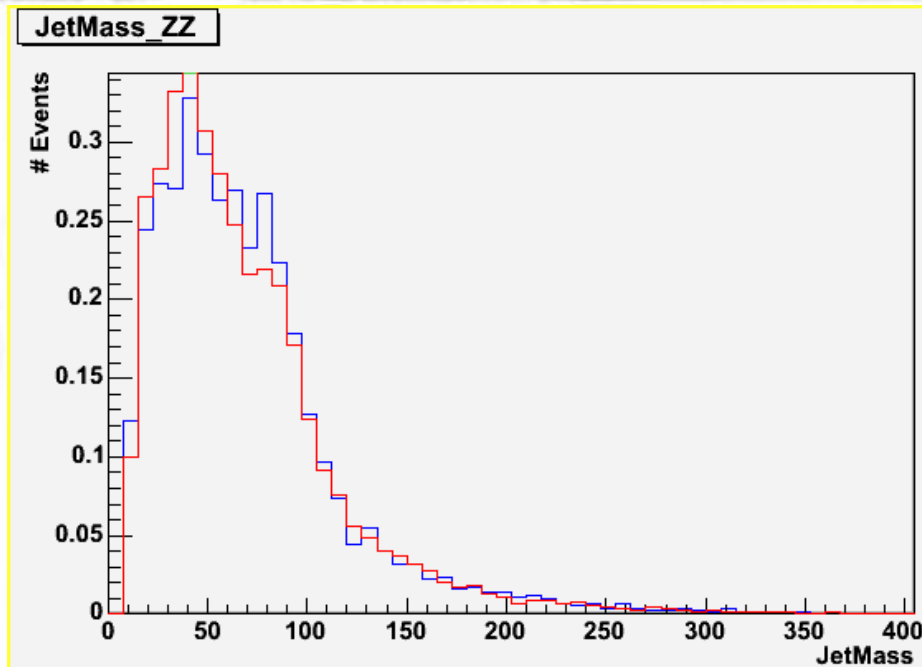
Red=Old MC

Blue=Alpgen

Arbitrary
Normalization

ZZ Comparison

$M(jj)$



Notes:

Red=Old MC

Blue=Alpgen

Arbitrary
Normalization

$\eta(\text{jet1}) - \eta(\text{jet2})$

