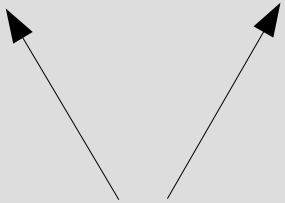
Comparison between reconstruction strategies

Cases we will compare:

-JAMS
-Single LH
-Iterative LH (32it)
-Paraboloid

-Direct Walk
-Single LH
-Iterative LH (32it)
-Paraboloid

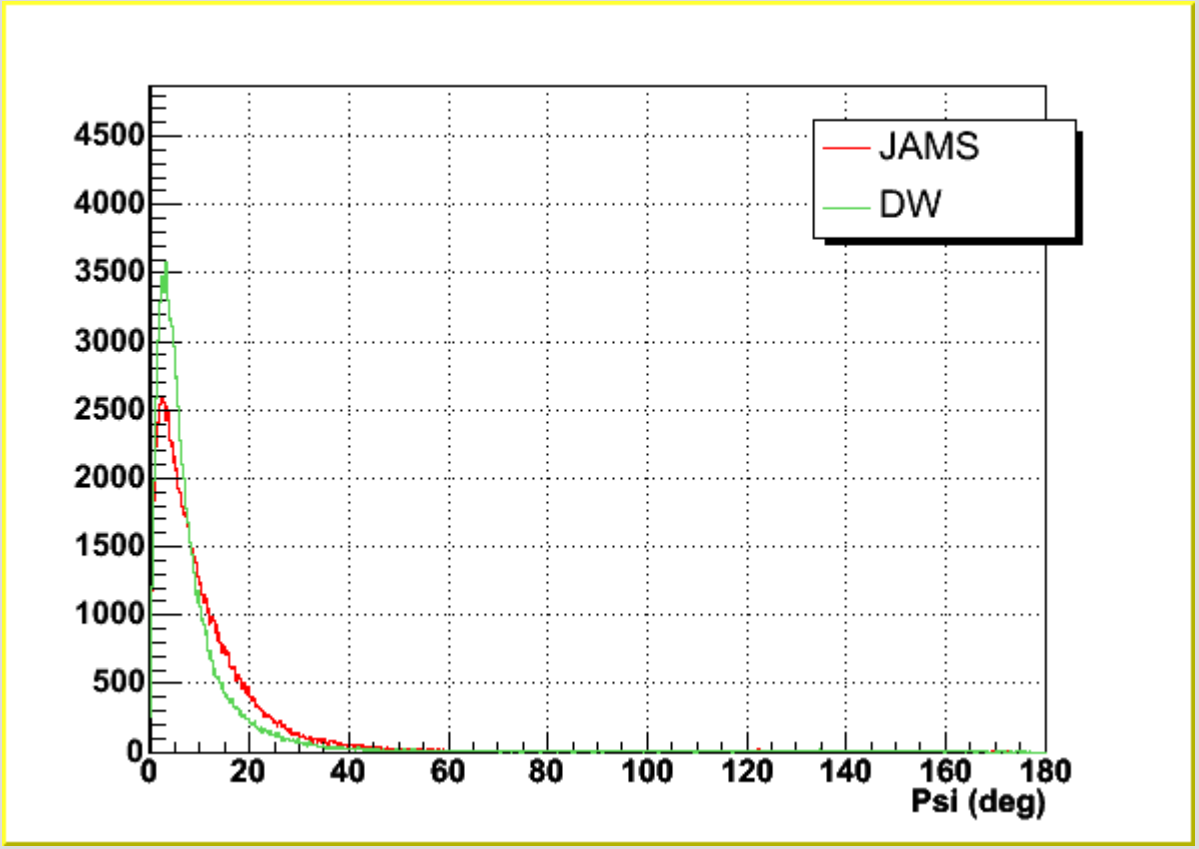


each result is the seed for the following strategy

we do it for two levels of cuts

JAMS vs DW (I)

- Cut0: AmandaTr.Fired==1

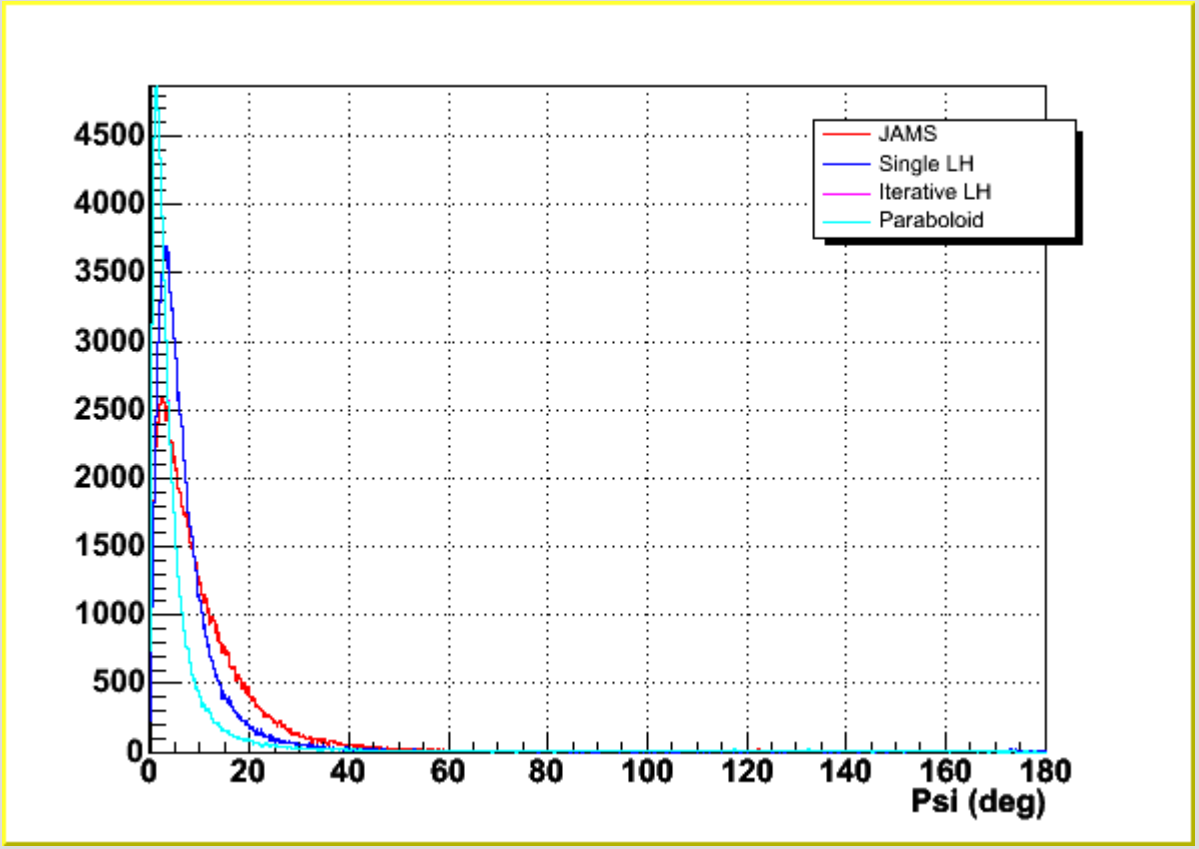


JAMS: 7.50842

DW: 5.48952

From JAMS (I)

- Cut0: AmandaTr.Fired==1



JAMS: 7.50842

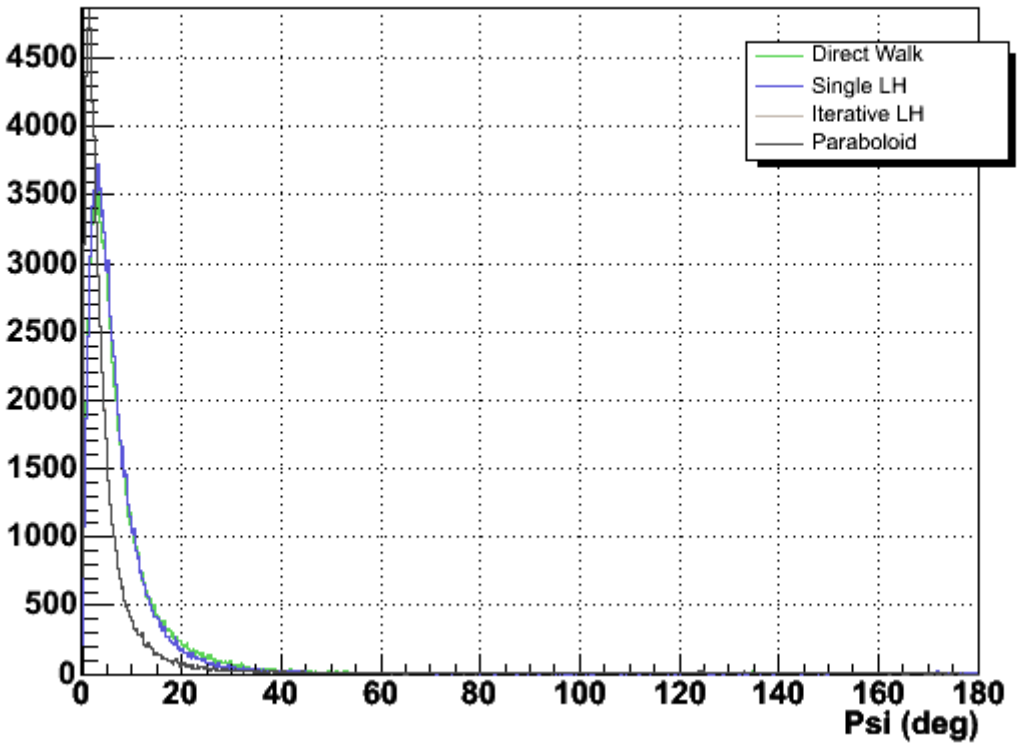
Single LH: 5.43899

Iterative LH: 3.12755

Paraboloid: 3.12672

From DW (I)

- Cut0: AmandaTr.Fired==1



DW: 5.48952

Single LH: 5.35775

Iterative LH: 3.08399

Paraboloid: 3.08323

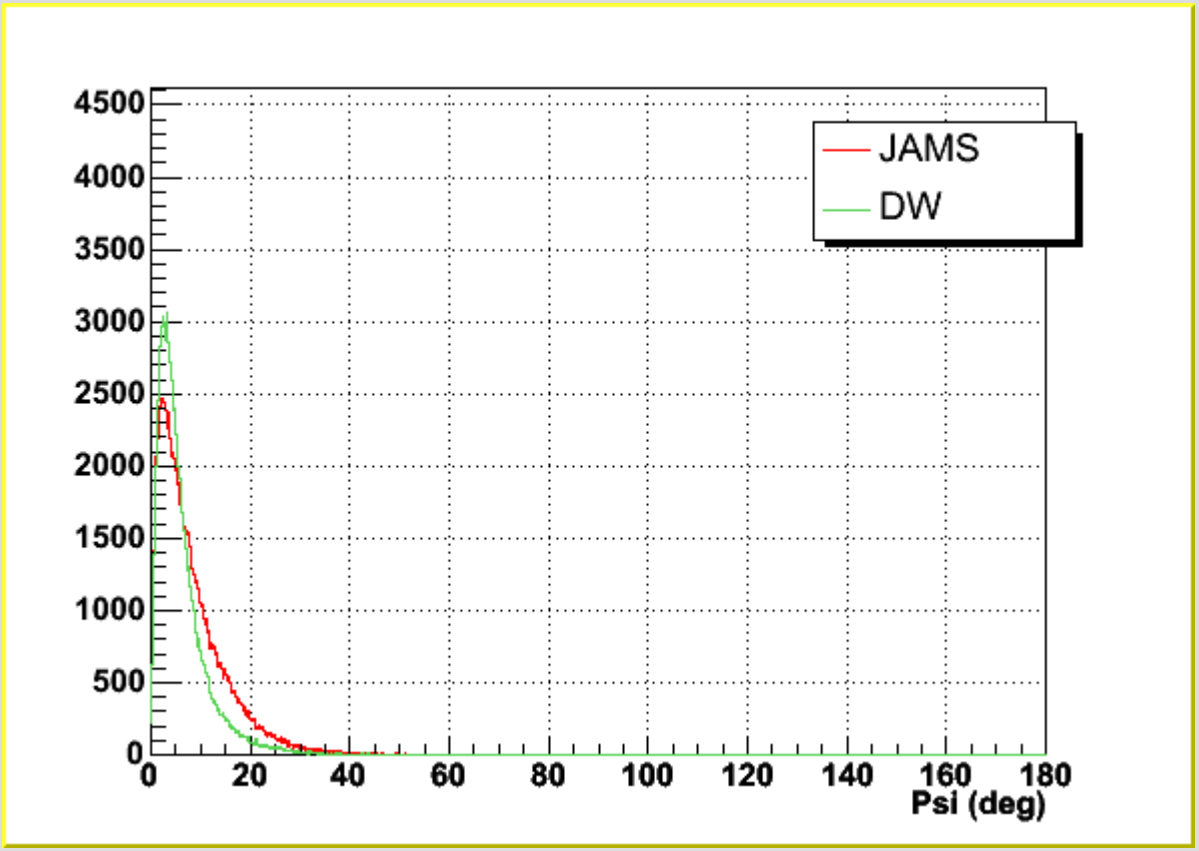
Comparison (I)

- JAMS: 7.50842
- JAMS->Single LH: 5.43899
- JAMS->Single LH->Iterative LH: 3.12755
- JAMS->Single LH->Iterative LH->Paraboloid: 3.12672

- DW: 5.48952
- DW->Single LH: 5.35775
- DW->Single LH->Iterative LH: 3.08399

JAMS vs DW (II)

- Length > 120 && |Smoothness|<0.4

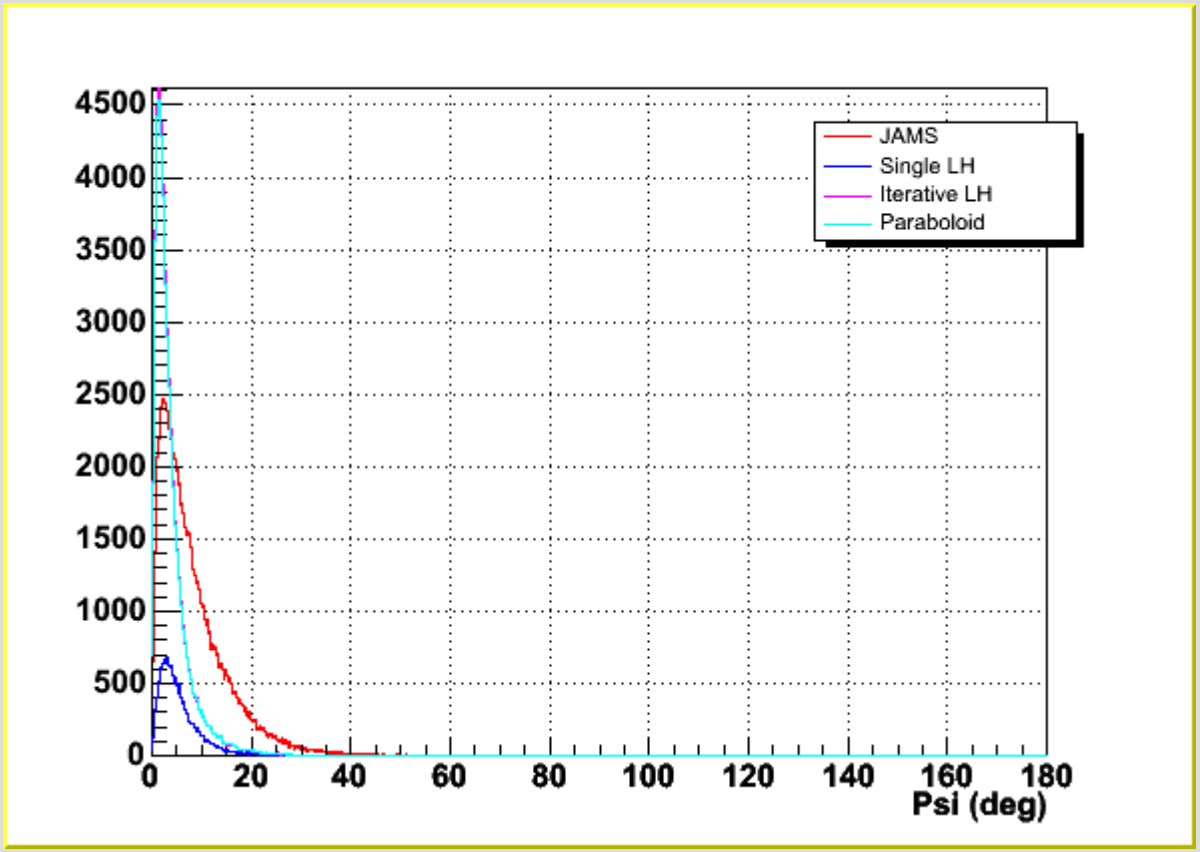


JAMS: 6.35831

DW: 4.70218

From JAMS (II)

- Length > 120 && |Smoothness|<0.4



JAMS: 6.35831

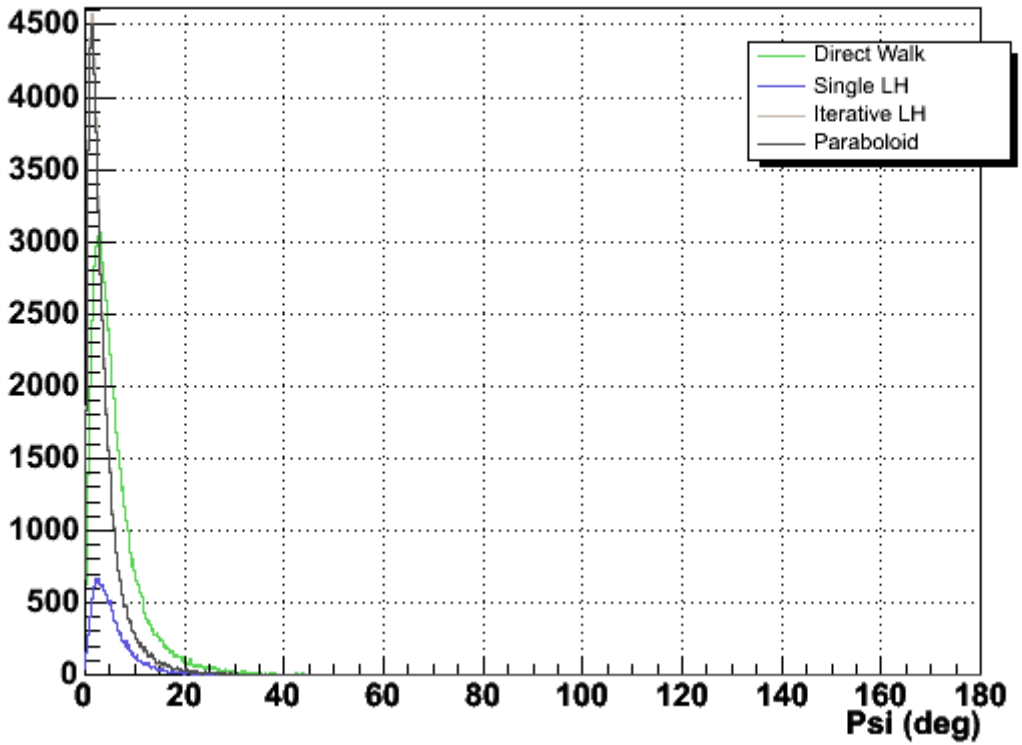
Single LH: 4.45815

Iterative LH: 2.70871

Paraboloid: 2.72366

From DW (II)

Length > 120 && |Smoothness|<0.4



DW: 4.70218

Single LH: 4.3732

Iterative LH: 2.68147

Paraboloid: 2.6987

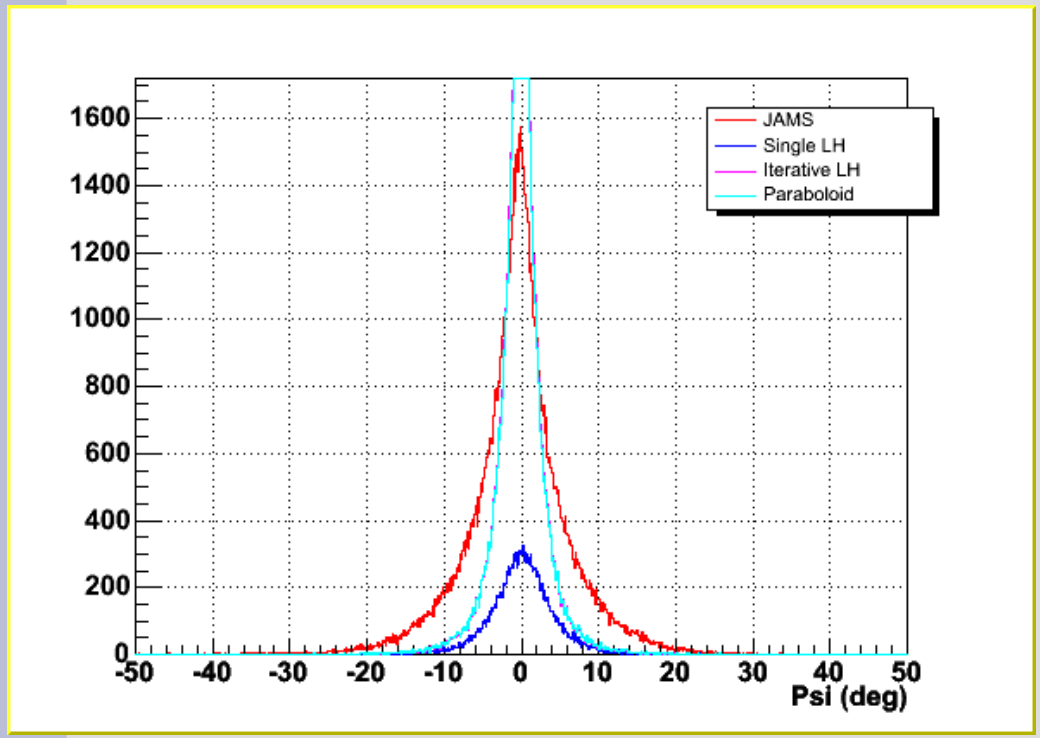
Comparison (II)

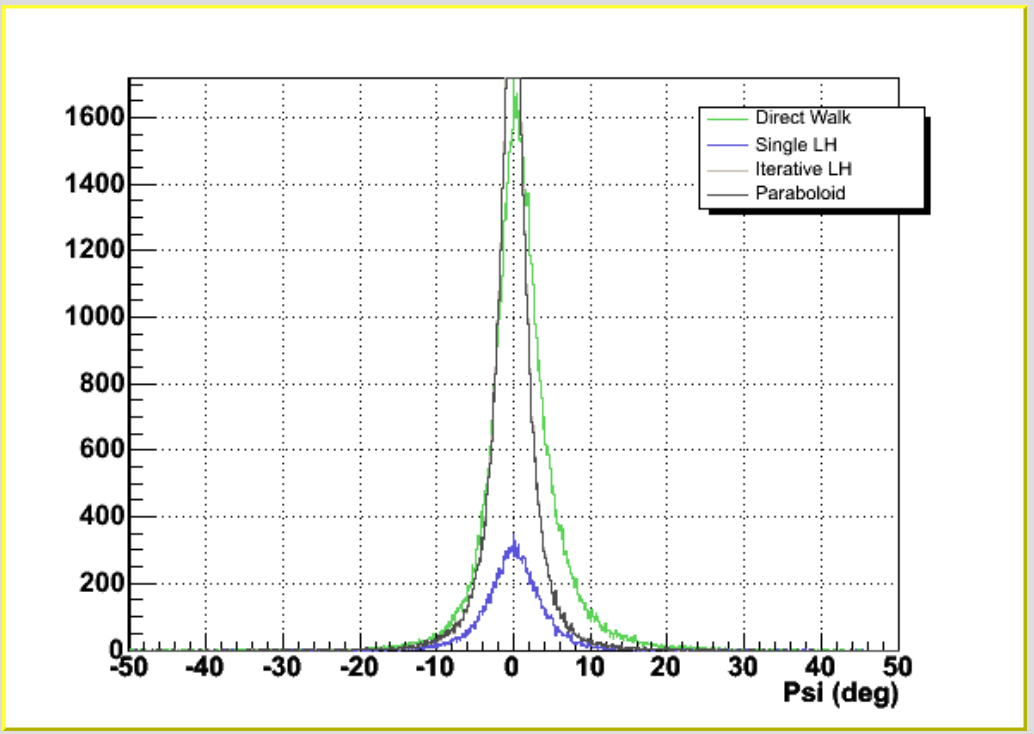
- JAMS: 6.35831
- JAMS->Single LH: 4.45815
- JAMS->Single LH->Iterative LH: 2.70871
- JAMS->Single LH->Iterative LH->Paraboloid: 2.72366

- DW: 4.70218
- DW->Single LH: 4.3732
- DW->Single LH->Iterative LH: 2.68147

$Theta_{gen}$-$Theta_{rec}$

- Length > 120 && |Smoothness|<0.4





Theta_{gen}-Theta_{rec}

Mean

- JAMS: -0.430362
- Single LH: 0.0682435
- Iterative LH: -0.156011
- Paraboloid: -0.159094

- DW: 0.987465
- Single LH: 0.0645861
- Iterative LH: -0.141351
- Paraboloid: -0.146196

RMS

- JAMS: 6.63818
- Single LH: 4.59195
- Iterative LH: 3.30182
- Paraboloid: 3.38599

- DW: 4.88767
- Single LH: 4.52391
- Iterative LH: 3.24786
- Paraboloid: 3.3402