# V<sub>T</sub> Contribution to Signal from SNR 1713.7 3946

R.Mele – F.Di Capua Napoli Group





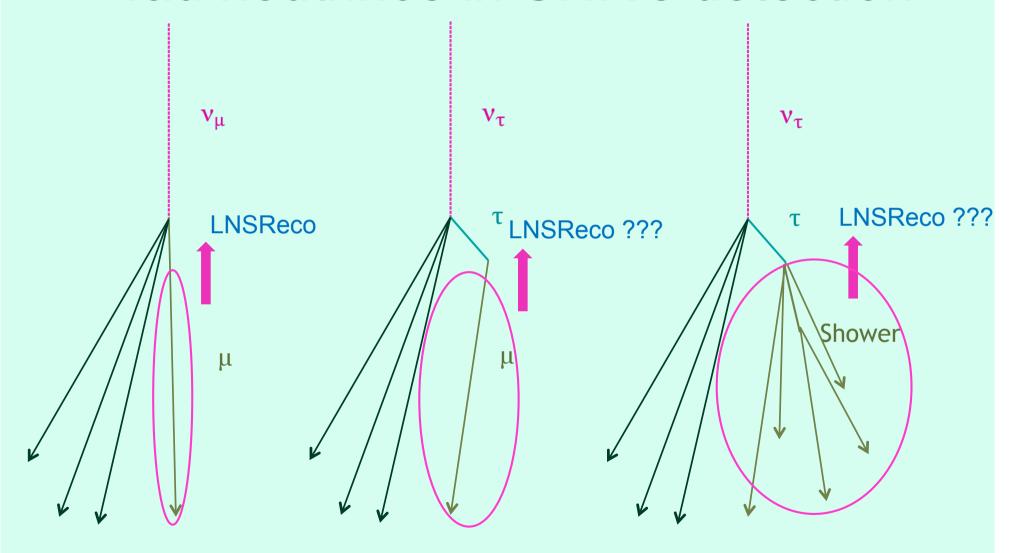
# Goals of Napoli Group in Source Analysis

- § Study of nu tau Contribution to neutrino signal from SNR's (with particular attention to RX J1713.7 3946)
  - -Using LNSreco Software
  - -Using Shower Reconstruction Software

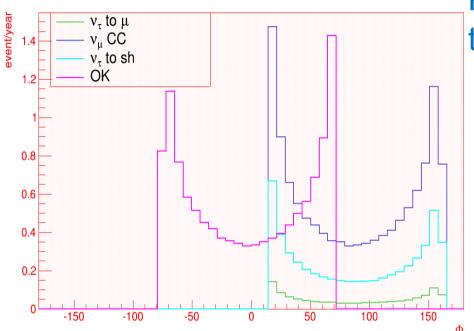
§ Study of all flavours Contribution to neutrino signal from SNR's

§ Study of Cuts to use to maximize Sensitivity

#### Tau neutrinos in SNR's detection

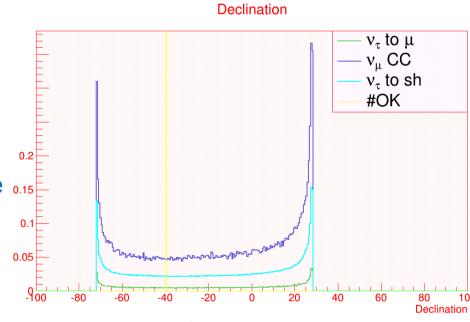


# Neutrino Tau Generation Problems with genhenv7r2

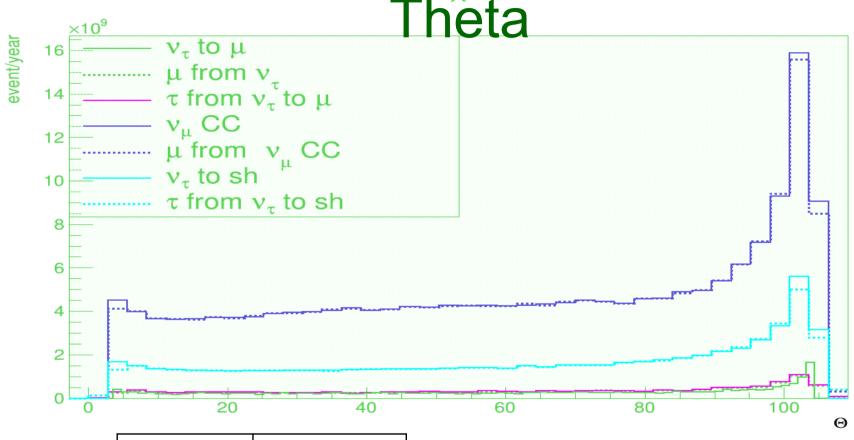


Phi distribution seems to be translated of \$90°





# Neutrino Tau Generation Results with genhenv7r3

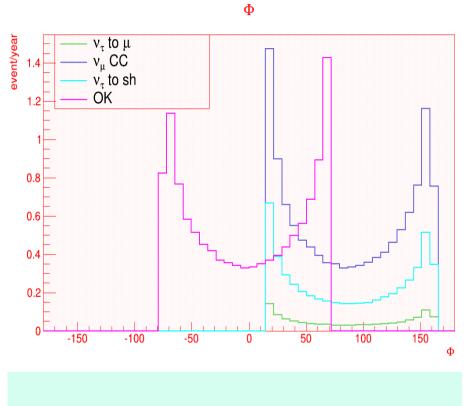


	# events
<b>V</b> μ	18.233
<b>ντ →</b> μ	2.40724
ντ <del>→</del> Sh	6.37853

Number of events/year in the detector 1 block

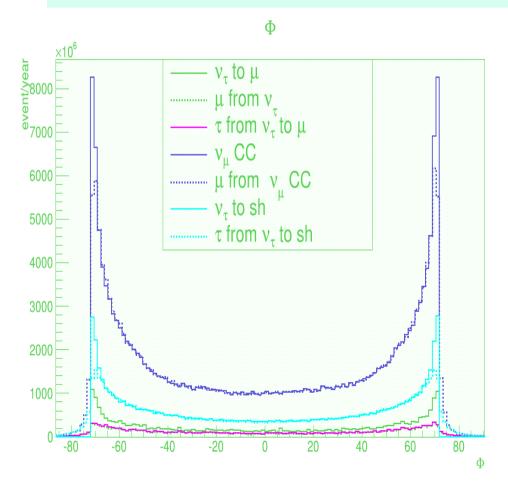
### Neutrino Tau Generation

#### Results with genhenv7r3 Phi



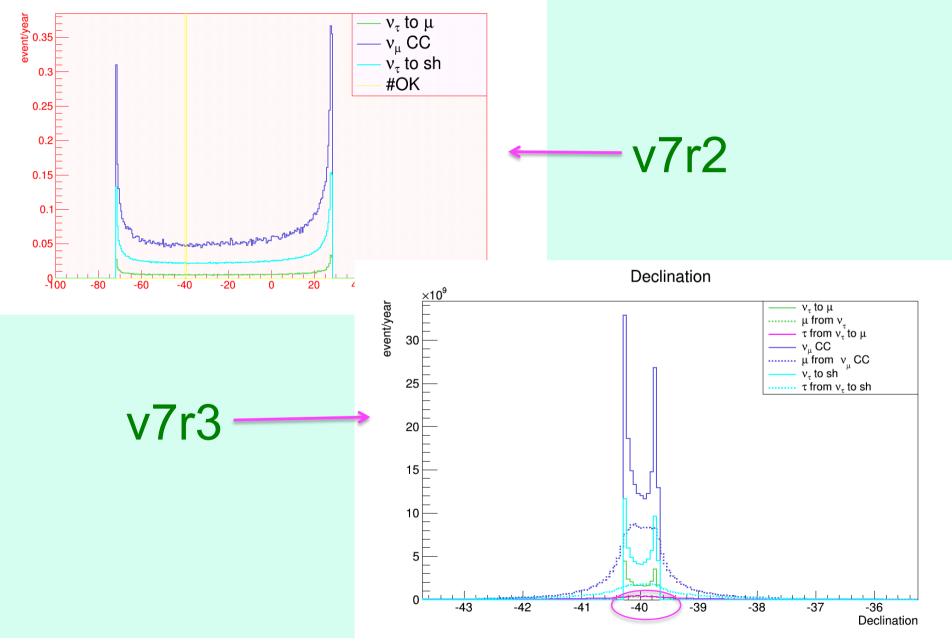






### Neutrino Tau Generation

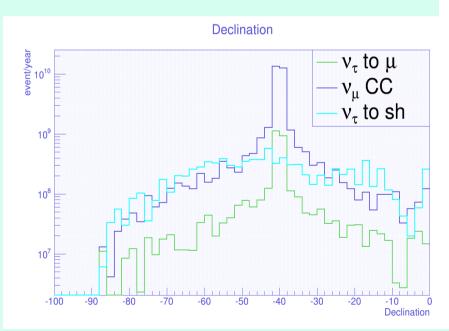


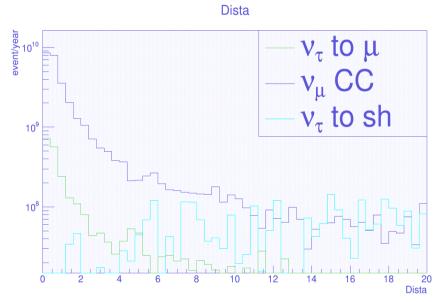


## Preliminary Study

contribution to signal from RX J1713.7 3946

	θ≤96
<b>V</b> μ	3.64111
<b>ντ →</b> μ	0.44912
<b>VT →</b> Sh	1.15634





	Angular cut <1° around direction source
<b>V</b> μ	2.46149
νт <b>→</b> μ	0.357226
v <b>⊤ →</b> Sh	1.01714

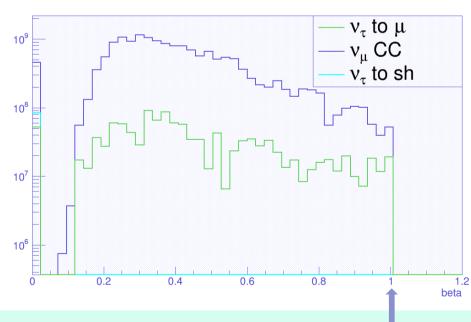
## Preliminary Study contribution to signal from RX J1713.7 3946

Lambda  $\begin{array}{c} v_{\tau} & v_{\tau} &$ 

	<b>Λ</b> ≥ -7
<b>V</b> μ	1.61965
νт <b>→</b> μ	0.118228
ντ <del>→</del> Sh	0.00836105

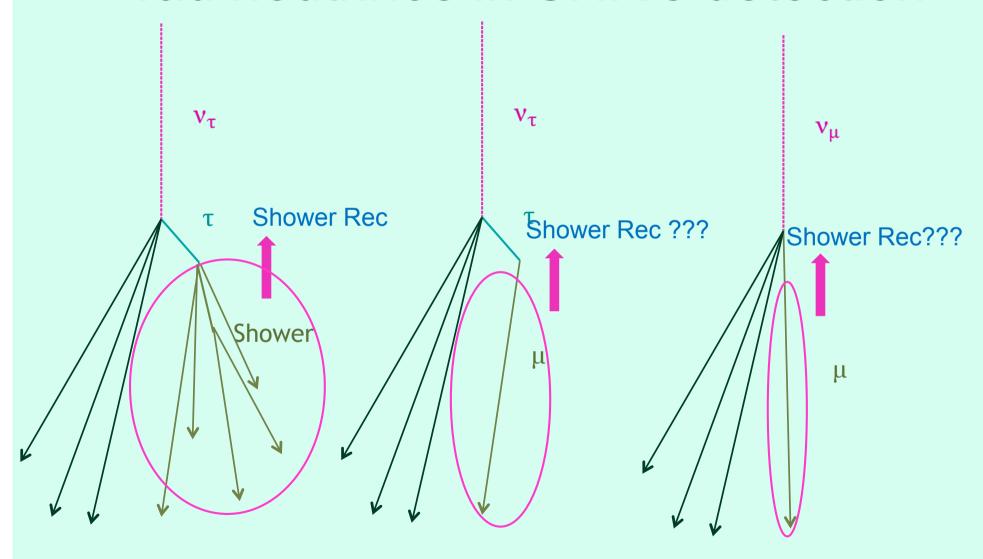
	ß ≤1
<b>V</b> μ	1.61965
<b>ντ →</b> μ	0.0946987
v <b>⊤ →</b> Sh	0.00836105

beta



Lambda

#### Tau neutrinos in SNR's detection



### Coming soon ...

- Sometimes of Confirmation of results obtained for Using LNSreco Software...
  - -Study of further types of cut to use to increase signal
- § Use of Shower Reconstruction Software -Using the same files used for LNSreco

  - -Study of Cuts
- Sombination of LNSreco and Shower Software for reconstruct all flavours signal from SNR's