

# Study Status

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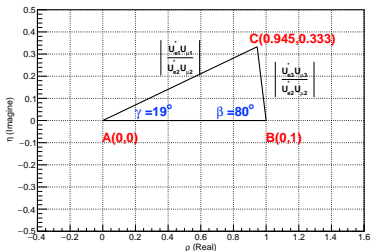
NuGroup Meeting, April 13th 2018

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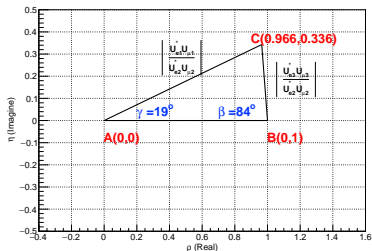
- 1 Normal and Inverted hierarchies
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The mixing angle are fitted by:

	Normal hierarchy	Inverted hierarchy
$s_{12}^2$	$0.307^{+0.013}_{-0.012}$	
$s_{13}^2$	$0.023^{+0.008}_{-0.007}$	$0.024^{+0.008}_{-0.007}$
$s_{23}^2$	$0.514^{+0.055}_{-0.056}$	$0.511 \pm 0.055$
$\delta_{CP}$	$1.48\pi$	$1.5\pi$



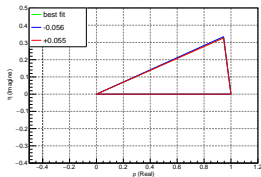
(a) Normal hierarchy



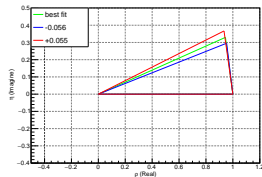
(b) Inverted hierarchy

We keep the vertex  $A(0,0)$  and  $B(1,0)$  and change the vertex  $C$  with changing the parameters  $s_{12}^2$ ,  $s_{23}^2$  and  $s_{13}^2$

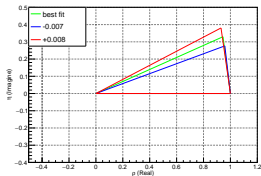
# Normal hierarchy with error



(c)  $s_{12}^2$

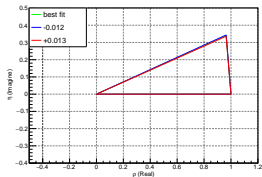


(d)  $s_{23}^2$

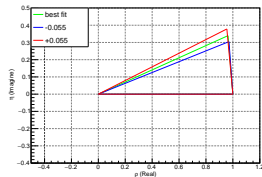


(e)  $s_{13}^2$

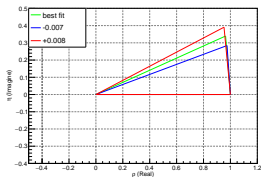
# Inverted hierarchy with error



(f)  $s_{12}^2$



(g)  $s_{23}^2$



(h)  $s_{13}^2$