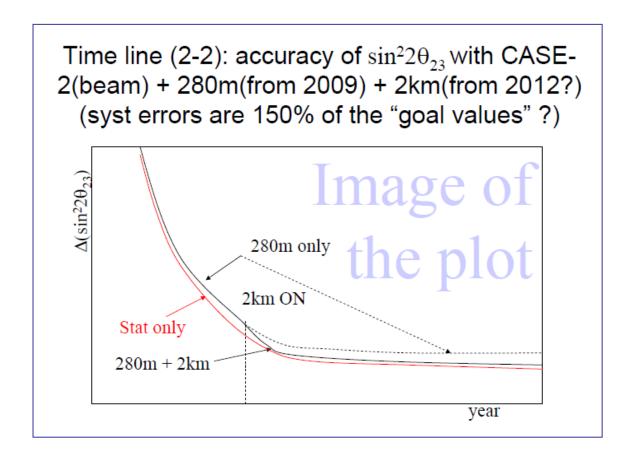
On the systematic error numbers

Takaaki Kajita Dec.20, 2006 2KM meeting

At the previous 2km meeting



Systematic errors;

"goal values"

"easily (?) achievable values"

We need to discuss with Nakaya-san about the 280 numbers.



TK discussed with Nakaya-san on Dec.14 @Kyoto.

Recommended ND280 systematic error numbers

	ND280		2KM	
	"goal"	"easy"	"goal"	"easy"
ν _e appearance BG	10%	15%	5%	7.5%
ν_{μ} normalization	5%	7.5%		
v_{μ} spectrum distortion v_{μ} spectrum width	14% 7%	20% 10%		
Energy scale	2%	3%		2.1%
v_{μ} Non-QE/QE	5%	10%		

Blue from 280 proposal

Appendix: Some comments on TK's file for the Dec.07 meeting

- Page 7: We should stress that water Ch of SK type is only possible at the 2km position.
- Page 12-14: The measurement of the 1ring μ -like spectrum in the 2km water Ch. is very important, since the 280m prediction on the QE and non-QE fraction can only be checked by comparing with the 1ring μ -like spectrum. If the prediction on non-QE/QE is wrong, the spectrum predicted by FGD and measured by 2km do not agree.
- Page 15: Although it might not be easy to write properly, from the K2K experience, it is very important that we have many ways to check the non-QE/QE ratio measurements.
- page 23: In order to get the general agreement from the collaboration, it is good to have the strategy discussed in page 23.
- page 23 and later: It "might be" good to write that some 2km water Ch. hardware are related to the R&D of Hyper-K.