Silicon Barrel/Disk Design Status

(or how to get a major headache)

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STAR TUP meeting
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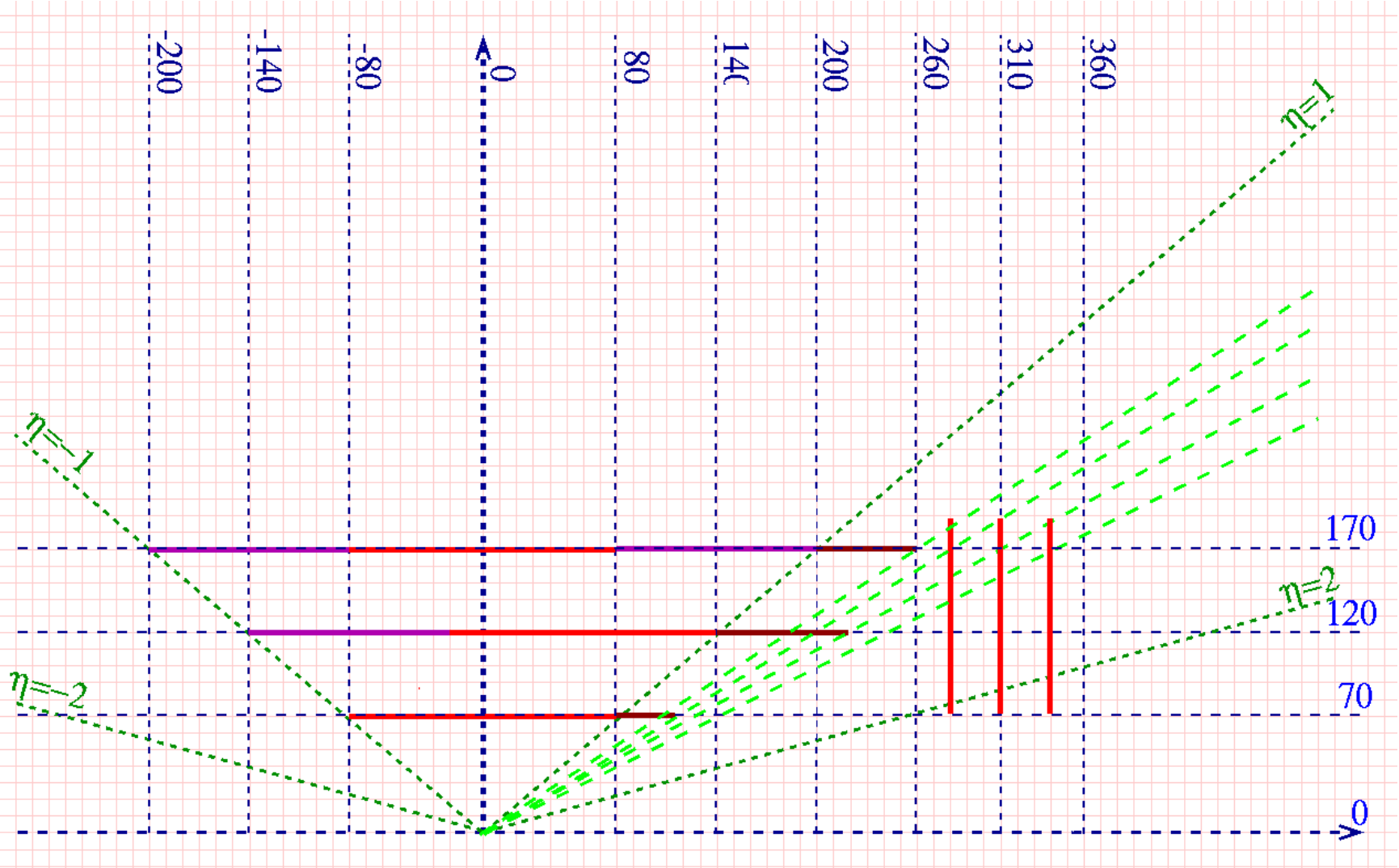
1: Where we were last time

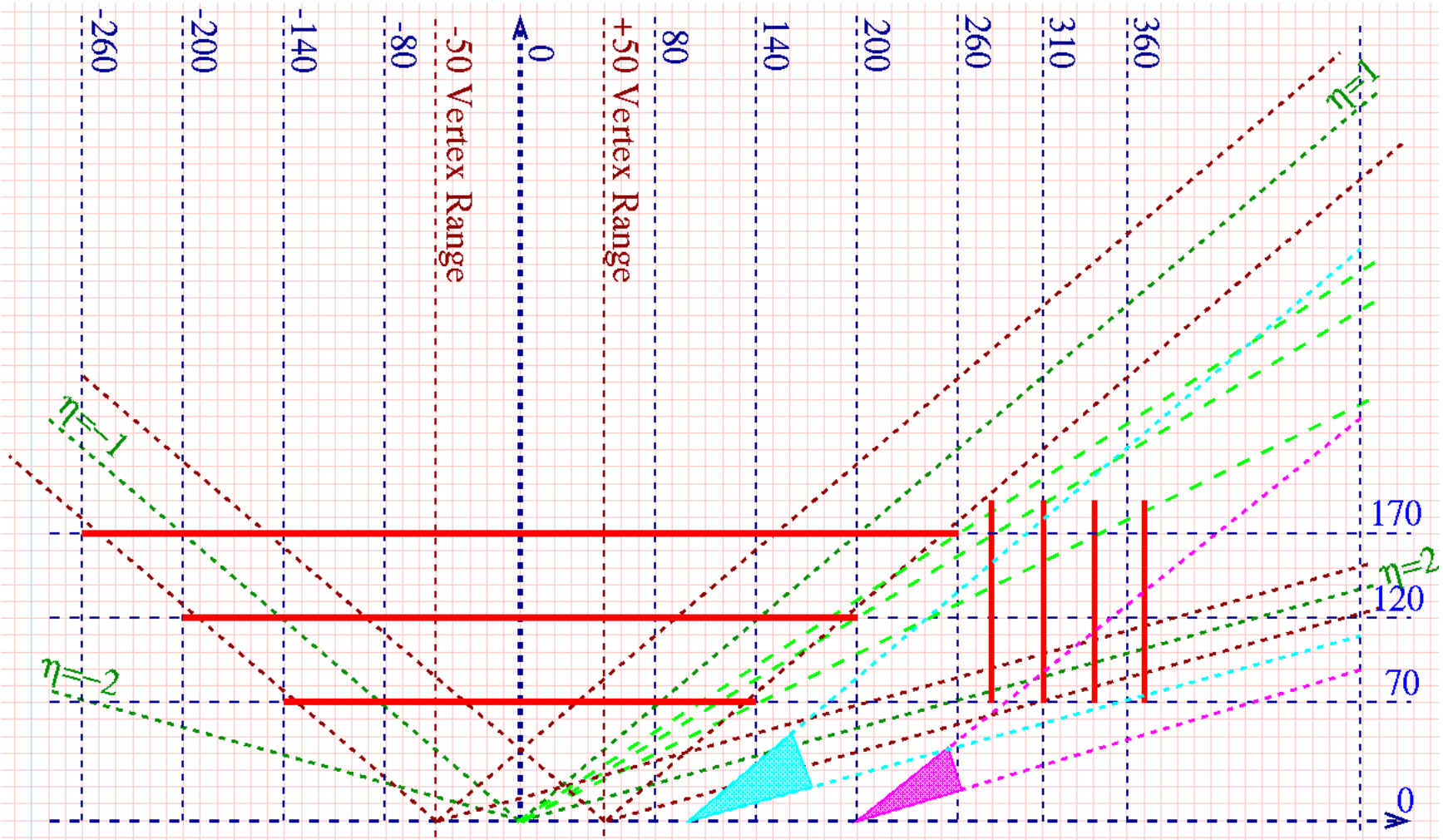


Optimized design for nominal vertex

Request to take vertex range into account

Scale 1:3

2: Vertex range -5 to +5cm



No. sensors in barrel: 1236

No. 40x40mm^2 sensors: 14 : 20 :

Sensors/module: 4/3 : 4/3/3 : 4/3/3/3

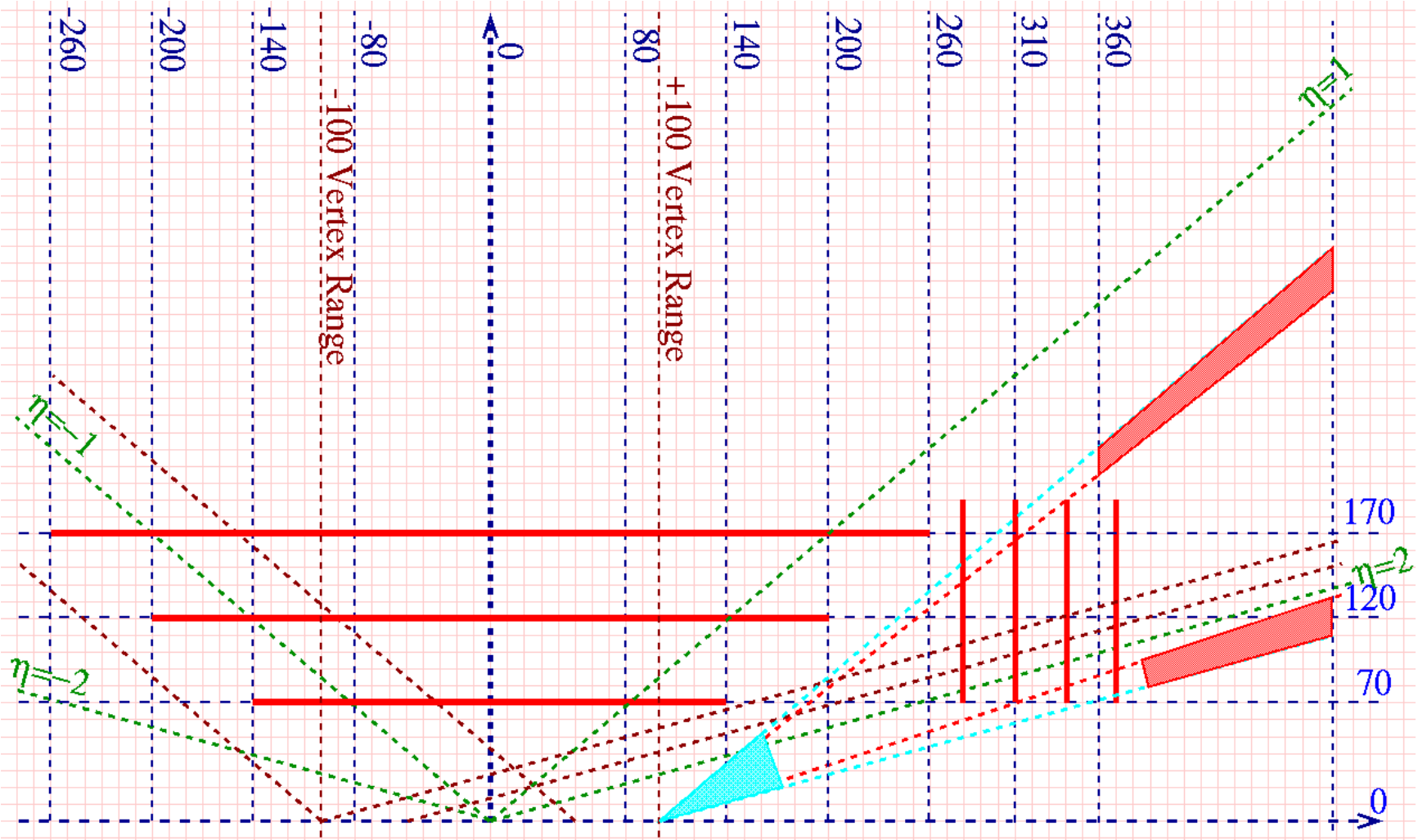
No. of ladders: 11 : 19 : 27

No. sensors in disks: 336

21 2-sensor modules per ring

Scale 1:3

3: Vertex range -10 to +10cm



No. sensors in barrel:	12[illegible]		
No. 40x40mm^2 sensors:	14 :	20 :	26
Sensors/module:	4/3 :	4/3/3 :	4/3/3/3
No. of ladders:	11 :	19 :	

ADD 2 MORE DISKS or
LIVE WITH 2 HITS INSTEAD
OF 3 HITS IN SMALL REGIONS

Scale 1:3

4: Vertex range -20 to +20cm

This is where the major headache started
No real way around adding more disks
Outside vertexing range of microvertex
Probably difficult vertexing for the barrel also
Forget about it?