SUMMARY OF THE PROPOSED KM MEASUREMENTS

A. Messina

- 1) Kick strength and rise time for the whole K.M.
 - A 3,5 m delay line pick-up terminated at both ends into the characteristic impedance.
 A pick-up in air is preferable (but it must be studied)
 - b) Points of measurement

x direction at y=0 10 mm steps from x=-60 to x=+60y " at x=0 10 mm " from y=-30 to y=+30

- 2) Kick strength and rise time for one unit
 - A 350 mm delay line pick-up terminated at one end into the characteristic impedance and 1) short circuited to the other end for the magnetic measurements, 2) open to the other end for detecting stray fields influence.
 - b) All the units pulsed x direction at y=0 10 mm steps from x=-60 to x=+60 y " at x=0 10 mm " from y=-30 to y=+30
 - c) Magnets not pulsed
 - c1) Magnet B_1 not pulsed
 - c2) Magnet A1 not pulsed
 - c3) Magnet A₂ not pulsed
 - c4) Magnet $A_1 A_2$ not pulsed

x direction at y=0 $\,$ 60 mm steps from x=-60 to x=+60 $\,$

y " at x=0 30 mm " from y=-30 to y=+30

3) Field measurements

c) magnets taken out

1)	magnet	B1	out	5		
2)	11	A	11			
3)	11	A	11	(see	case	C)
4)	11	A1-	-A2	out		

4) Proposed order of execution

- 1) Kick strength and rise time for the whole magnet
- 2) Kick strength and rise time for one unit (complete)
- 3) Field measurements
 - C) end effect
 - D) junctions effect
 - a) normal conditions

 - b) magnet not pulsed c) magnet taken out
 - B) field distribution in one unit
 - A) field distribution in the z direction.