

Theory English (Official)

A3-1

Large Hadron Collider (10 points)

Part A. LHC accelerator (6 points)

A.1 (0.7 pt)
v =
A.2 (0.8 pt)
approximation: $\Delta=$
numeric: $\Delta=$
A.3 (1.0 pt)
formula: $B=$
numeric: $B =$
A.4 (1.0 pt)
$P_{ m rad} \propto$
A.5 (1.0 pt)
$P_{ m tot} =$



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A3-2

A.6 (1.5 pt)		

T =



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Part B. Particle Identification (4 points)

В	3.1 (0.8 pt)		
n	i =		
В	3.2 (0.7 pt)		
l	=		
В	3.3 (1.7 pt)		
n	i =		
В	3.4 (0.8 pt)		
	Particle	Measured mass: mass unit []:	Identified as:

Particle	Measured mass; mass unit []:	Identified as:
A		
В		
С		
D		