

## points) 10) Collider Hadron Large

### points) 6) accelerator LHC A. Part

(0.7 pt) **A.1**

$$v =$$

(0.8 pt) **A.2**

$\Delta$  = approximation:

$\Delta$  = numeric:

(1.0 pt) **A.3**

$B$  = formula:

$B$  = numeric:

(1.0 pt) **A.4**

$$P_{\text{rad}} \propto$$

(1.0 pt) **A.5**

$$P_{\text{tot}} =$$

(1.5 pt) **A.6**

$T =$

**points) 4) Identification Particle B. Part**

(0.8 pt) **B.1**

$m =$

(0.7 pt) **B.2**

$l =$

(1.7 pt) **B.3**

$m =$

(0.8 pt) **B.4**

as: Identified	: [     ] unit mass mass; Measured	Particle
		A
		B
		C
		D