編號: 113

國立成功大學 108 學年度碩士班招生考試試題

系 所:工程科學系 考試科目:近代物理

考試日期:0224,節次:2

第1頁,共1頁

※ 考生請注意:本試	題不可使用計算機。	請於答案卷(卡)作答	,於本試題紙上作答者,不予	計分。
1. Assume that $E = mv^2/(25\%)$	/2 for a particle movin	g in a straight line. Sho	w that $\Delta E \Delta t \ge h/4\pi$, where Δt	$= \Delta x/\nu.$
2. Find the energies of the positron that are initially		e produced when annihi	ilation occurs between an elect	ron and
3. A flashbulb is situated What is the actual time the			the observer sees the flash at 2:	00P.M.
exists a second observer,	O', moving relative to	the first observer who w	3.6×10 ⁸ m and occur 2 s apart will determine that the two event ents measured by this observer	ts occur