

1. Protactinium Generator

The perfect demonstration of half life decay. The isotope used in the protactinium generator decays in a matter of 10-15 minutes allowing half life decay to be easily observed within a standard lesson time. The generator is completely sealed in a robust enclosure. The main two components of generator are uranyl nitrate and an organic solvent. These two components separate into two distinct layers that when shaken together produce a radioactive isotope with a half life of about 1 minute. Radioactive decay is observed using a GM tube and counter (or equivalent) which should be purchased separately.

Code SER01192 **Pack** Each **Price** £344.14



2. Lascells Multi-Wire Spark Detector

This apparatus gives a memorable and dramatic demonstration of the ionising properties of alpha particles. Alpha particles have short range but are very effective at ionising air. In this apparatus a number of fine wires are supported above a metal plate to form two electrodes separated by a small air gap. 4mm terminals allow an EHT supply to be connected and when the potential across the gap reaches about 4500V occasional ionised particles cause a visible and audible spark to occur. If an alpha source is brought near, the sparking dramatically increases showing the presence of ionised particles. The short range and poor penetrating properties of alpha radiation can be easily demonstrated. An EHT power supply capable of providing a negative potential is required (recommend EL10370).

Code PY3036 **Pack** Each **Price** £118.00



3. IPC Irwin Spark Counter

A highly visible instrument for showing the random nature of alpha radiation. Produces very bright sparks when alpha particles are ionised on the circular wire grid. Comes complete with sliding holder for the radiation source and an accurate scale to measure the effects of distance between the source and the grid. Recommended for use with our 5kV power supply (EL10370) and scaler timer and frequency meter (EL10440).

Alpha radiation source not included, available to purchase separately under code SEA49591 (Americium source).

Code EL10478 **Pack** Each **Price** £300.95



4. Danger Radioactive Material Warning Tape

Roll of tape, suitable for sealing packages and boxes to give added security and warn dangerous substances present. Strong, single-ply self-adhesive vinyl. 25mm x 66m.

Code PW58A **Pack** Each **Price** £10.41

