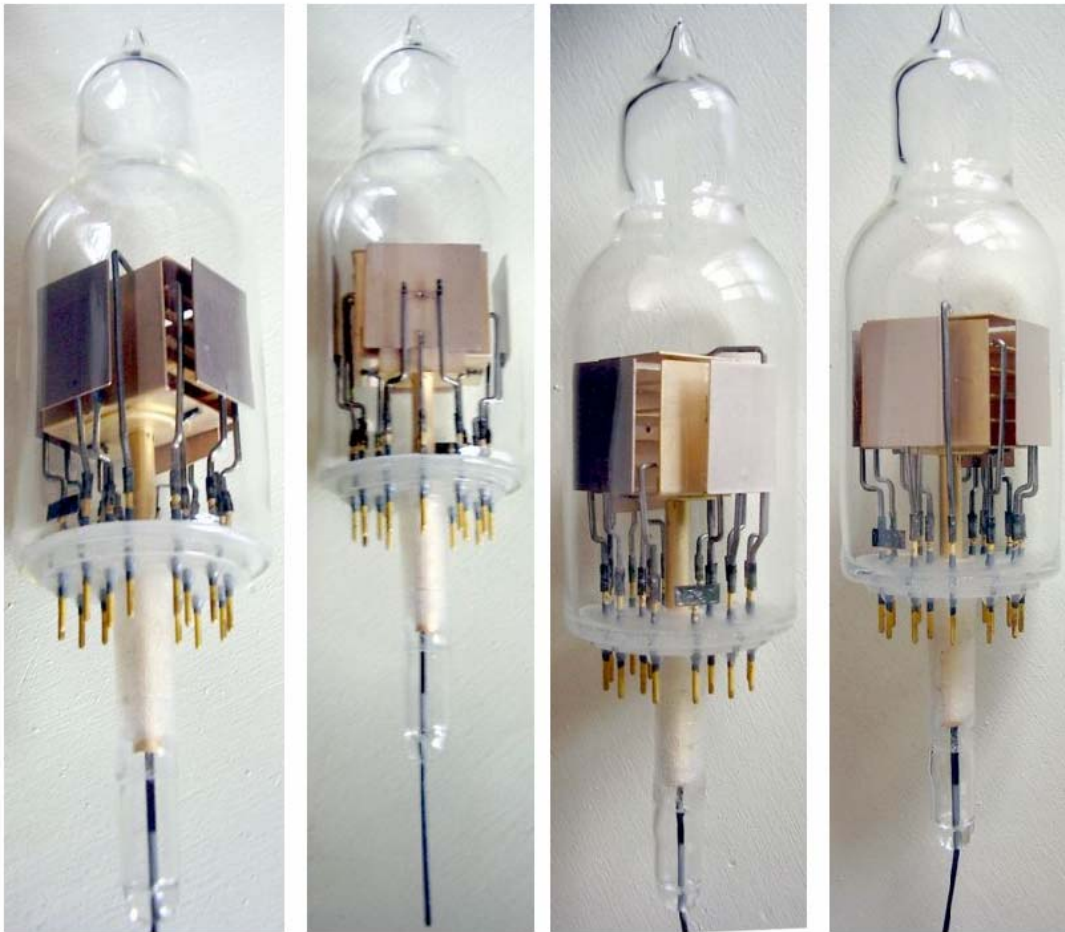


Omegatron – Custom Mass-Spectrometer Sensor Tube



This custom Philips sensor derives from their 56006 mass-spectrometer sensor.

The tube has a special base, 16 pins in two concentric rows. The ion collector output comes from the glass stem in the middle of the base. The tungsten filamentary cathode is barely visible in the second picture above, before the small hole in the middle of the square first focusing grid. To prevent corrosion and allow cleaning with high-temperature baking, iridium electrodes are used inside this tube.

Glass tip must be cut before installation. The tube must be operated in a magnetic field. The filament voltage must be regulated to operate the tube at the wanted electron beam current.

The sample comes from the collection of Peter den Boer.