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Detection of Charged Particles Emitted by Electrolytically Induced Cold Nuclear Fusion

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Abstract:

We have tried to obtain evidence for electrolytically induced cold nuclear fusion by detecting charged particles associated with the nuclear reaction. Charged particles were detected by a conventional silicon surface barrier detector attached close to the thin foil cathode which formed the bottom of an electrolysis cell. The efficiency and signal-to-noise ratio of this system are higher than those of neutron detection systems, which made it easy to determine whether the fusion occurred or not. The energy spectrum measured with the electrolysis of D2O suggested that the nuclear reaction took place in palladium cathode.

Keywords:

cold nuclear fusion / charged particle / silicon surface barrier detector