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Excess Thermal Energy In The Cell Loaded With Mixture of Ni Powder And Li[AlH_4] SHI NGUYEN-KUOK[1], YURY MALAKHOV[2], IVAN KOROTKIKH[3], None — Interest has significantly increased in the study of Low-Energy Nuclear Reactions. Especially after the publication of the test results from Andrea Rossi's high-temperature heat source that operates on a mixture of Nickel powder and Lithium Aluminum Hydride. Initial experiments showed that the reaction is unstable; occurring in a narrow temperature range (in practice, it is outside the melting temperature of the fuel materials). In this work we describe the design of the heat generator, the calorimetric method for measuring the amount of heat energy. The results demonstrate excess heat during heating the powder mixture of Ni and Li[AlH_4] to temperatures ranging from 1030—1140 C. The generator did not expose an X-ray photographic emulsion.

[1]Professor
[2]Associate professor
[3]Student

Shi Nguyen-Kuok
None

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