

## nuclear reactor Nur-ud-Deen Nur-ul-Ain Diamond

Contributed by Administrator  
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nuclear reactor. A device by which a fission chain reaction can be initiated, maintained, and controlled. Its essential component is a core of fissionable fuel which usually has a moderator, a reflector, shielding, and a control mechanism. The nuclear radiation may take the form of gamma rays, or other nuclear particles like alpha rays (helium nuclei), or beta rays (electrons). Neutrons, positrons, and protons also may be emitted along with the transmutations. It is used to artificially color diamonds. See cyclotron-treated diamond, PILE-TREATED DIAMOND, TREATED DIAMOND. Nur-ud-Deen (Light of Faith) Diamond. A large (size unknown) pink diamond, mounted in the center of a cross, that belonged to Prince Alexander Tzary in the 19th century. The cross, which was embellished with 85 brilliants and 160 rose cuts, was sold in London, in 1898, for £750. No additional information is available. Alternate spellings are Noor-un-Deen and Noor-ud-Deen. Nur-ul-Ain Diamond. A 60-carat pink diamond. Set in a diadem with 323 smaller diamonds. Name means Light of the Eye. Belongs to Iranian Crown Jewels. Believed to have been cut from the Great Table. See darya-i-nur. Alternate spelling is Noor-ol-Ayn. nyf. See naif.