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Nuclear reactors and nuclear reactions 1.1. Principle of a nuclear reactor In a nuclear reactor certain very heavy nuclei (e.g.  $^{235}\text{U}$ ) can be split into two fragments by neutrons, whereby a relatively large amount of energy is released and, moreover, a few new neutrons, which in their turn can cause new fissions.

## **Reactor Physics Reader - Jan Leen Kloosterman**

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For reactor physics calculations for modular pebble bed reactors program systems and nuclear data have to be used to get reliable results for important operational and safety related parameters. For cylindrical or annular core geometry such parameters

## **Models for reactor physics calculations for HTR pebble bed**

reactor physics calculations for low enriched high temperature gas cooled reactors October 2001 . The originating Section of this publication in the IAEA was: ... in Physics Calculations for HTGR Cores [1.1] which was hosted by the Paul Scherrer Institute (PSI), Villigen, Switzerland in May, 1990.

## **Critical experiments and reactor physics calculations for**

Reactor Physics Calculations for a Sub critical Core of the IPEN-MB-01 driven by an external neutron source  
A. Antunes 1 , T. Carluccio 1 , A.G. Mendonça 2 , A. dos Santos 1 , J.R. Maiorino 1

## **Reactor Physics Calculations for a Sub critical Core of**

The suggested methodologies allow for more efficient Monte Carlo reactor physics calculations, giving results with errors that can be estimated more reliably than with other existing methods. The suggested methods can easily be implemented in established Monte Carlo criticality codes.

## **STORM in Monte Carlo reactor physics calculations**

transport calculations up to whole core size calculations, which can be performed on models of varying size and complexity. WIMS can perform equivalence and subgroup theory resonance shielding treatments for thermal spectrum reactors with light water, heavy water and graphite moderators, mixed moderator systems.

## **Developments within the WIMS Reactor Physics Code for**

commercial codes, these calculations can be completed over a short period of time. With MC models however, unless one has a reasonably fast convergence scheme, the use of MC would be infeasible for routine reactor physics calculations. To address this challenge, variance reduction techniques have been developed to accelerate MC convergence.

## **Development of Subspace-Based Hybrid Monte Carlo**

Department of NUCLEAR ENGINEERING Advanced Research Activities in Nuclear Reactor Physics  
Calculations Zeyun Wu, Ph.D. Department of Nuclear Engineering

## **Advanced Research Activities in Nuclear Reactor Physics**

NASA/CRâ€”2007â€”214724 Core Physics and Kinetics Calculations for the Fissioning Plasma Core Reactor  
C. Butler and D. Albright Institute for Scientific Research, Inc., Fairmont, West Virginia

## **Core Physics and Kinetics Calculations for the Fissioning**

HTGR Reactor Physics and Burnup Calculations Using the Serpent Monte Carlo Code Jaakko LeppÄ±nen  
VTT Technical Research Centre of Finland, P.O. Box 1000, FI-02044 VTT, Finland, Jaakko.Leppanen@vtt.fi

## **HTGR Reactor Physics and Burnup Calculations Using the**

The purpose of these calculations is to supplement the reactor physics work in Ref. [1] with additional comparisons between the current Highly Enriched Uranium (HEU) fuel and the proposed LEU fuel along with further characterization of the performance of the

## **SUPPLEMENTAL REACTOR PHYSICS CALCULATIONS AND ANALYSIS OF**

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## **reactor physics calculations for applications in nuclear**

Proc. XII Meeting on Reactor Physics Calculations in the Nordic Countries. Halden, Norway, May 17-18 2005. J. LeppÄ±nen. A New assembly-level Monte Carlo neutron transport code for reactor physics calculations. In Proc. M&C 2005. Avignon, France, Sept. 12-15 2005. J. LeppÄ±nen. Current Status of the PSG Monte Carlo Neutron Transport Code. In Proc.

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