

Published February 1990 | Version v1





# Parallel treatment of simulation particles in particle-incell codes on SUPRENUM

Seldner, D.;

Kernforschungszentrum Karlsruhe GmbH (Germany, F.R.). Inst. fuer Datenverarbeitung in der Technik 🖴

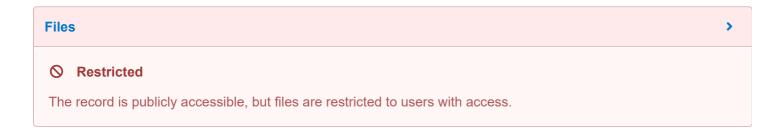
This report contains the program documentation and description of the program package 2D-PLAS, which has been developed at the Nuclear Research Center Karlsruhe in the Institute for Data Processing in Technology (IDT) under the auspices of the BMFT. 2D-PLAS is a parallel program version of the treatment of the simulation particles of the two-dimensional stationary particle-in-cell code BFCPIC which has been developed at the Nuclear Research Center Karlsruhe. This parallel version has been designed for the parallel computer SUPRENUM. (orig.)

# Availability note (English)

MF available from INIS under the Report Number.

# Abstract (German)

Vorliegender Bericht enthaelt die Programmdokumentation und -beschreibung des Arbeitspakets 2D-PLAS, das im Rahmen des vom BMFT gefoerderten SUPRENUM-Projekts im Kernforschungszentrum Karlsruhe im Institut fuer Datenverarbeitung in der Technik (IDT) erstellt wurde. 2D-PLAS ist eine parallele Programm-Version der Behandlung der Simulationsteilchen des im KfK entwickelten zweidimensionalen stationaeren Particle-in-Cell Codes BFCPIC, die speziell fuer den Parallelrechner SUPRENUM entwickelt wurde. (orig.)



### Additional details

Publishing Information

Imprint Pagination

83 p.

Report number

KFK--4692

#### **▶ INIS**

#### **Country of Publication**

Germany

#### **Country of Input or Organization**

Germany

#### **INIS RN**

21051059

#### **Subject category**

S70: PLASMA PHYSICS AND FUSION TECHNOLOGY;

#### Resource subtype / Literary indicator

**Computer Program Description** 

#### **Descriptors DEI**

ALGORITHMS; ARRAY PROCESSORS; AXIAL SYMMETRY; COMPUTER PROGRAM DOCUMENTATION; COMPUTERIZED SIMULATION; FORTRAN; NUMBER CODES; PARALLEL PROCESSING; PLASMA SIMULATION; TWO-DIMENSIONAL CALCULATIONS

#### **Descriptors DEC**

COMPUTER CODES; COMPUTERS; DIGITAL COMPUTERS; PROGRAMMING; PROGRAMMING LANGUAGES; SIMULATION; SYMMETRY

# Optional Information

#### Contract/Grant/Project number

Contract BMFT ITR8502K/4

#### Contact

Inquire about this record

#### **Details**

#### Resource type

Report

#### Published in

1990.

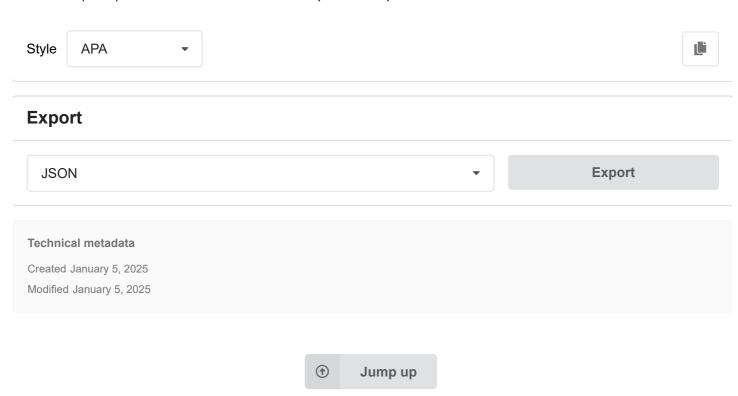
#### **Versions**

Version v1

Feb 1990

### Citation

Seldner, D., & Kernforschungszentrum Karlsruhe GmbH (Germany, F.R.). Inst. fuer Datenverarbeitung in der Technik. (1990). Parallel treatment of simulation particles in particle-in-cell codes on SUPRENUM.



## International Atomic Energy Agency (IAEA)

Vienna International Centre, PO Box 100, A-1400 Vienna, Austria Telephone: (+431) 2600-0, Facsimile: (+431) 2600-7, Official

Mail

Contact Us Disclaimer

Copyright © 2025 International Atomic Energy Agency. All rights reserved.