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PAPER TITLE PANTHERE V1 SOFTWARE : A tool dedicated to the
previson of the dose rates

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ABSTRACT (See instructions overleaf)

Simulation of dose rates with appropriate softwares is an important issue when implementing the ALARA process because one of the steps of the ALARA approach is predictive.

Moreover, in the prevision of a task-related dose, the dose rate parameter is more important than other parameters because it does have an influence on working conditions and even on the feasibility of the task.

The PANTHERE V1 software that will be in demonstration is carактерized by its ability to deal with complex situations (geometry, materials, sources). Many existing softwares offer the same ability with the drawback of a laborious data entry task and management of results. PANTHERE V1 benefits from the help of built-in CAD as an interactive means to manage both entry and results. 3 D visualization is avaiable.

The specifications for the development have been elaborated on the basis of the results of a working group gathering different kinds of users.

The final aim of PANTHERE V1 is to contribue to the standardization of the ALARA Approach within Electricité de France.