

Radiation Shielding Design for the J-PARC Project

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The J-PARC (Japan Proton Accelerator Research Complex) project is in progress, aiming at studies on the latest basic science and the advancing nuclear technology. In the project, the high-energy proton accelerator complex of the world highest intensity is under construction. Because of its very high beam power and its energy as well as the large-scale accelerator complex, we have encountered some difficult radiation problems in the radiation safety design. In order to overcome the problems on the shielding design for J-PARC, a calculation system with both simplified and detailed methods is used for the shielding design of J-PARC. This paper reviews the current status of the radiation shielding design for J-PARC by using the calculation system.