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Electromagnetic processes at high energies with “half-bare” particles

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In the present report a short review is given of last results on electromagnetic processes at high energies with “half-bare” particles such as transition radiation, Bremsstrahlung in a structured target, coherent radiation in ultrarelativistic crystals, ionization energy losses in a thin layer of matter, process of high energy electron-positron pairs production, etc. Considered are also some possibilities of experimental study of electromagnetic processes connected with the “half-bare” particles at high energies.

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