

Special Issue

Particles and Plasmas in Strong Fields

Message from the Guest Editors

The topic of particles and plasmas in strong fields is of great current interest, as it provides the scientific basis for investigating matter at high energy densities. Such extreme states characterized by very high temperatures and pressures occur in thermonuclear fusion plasmas (both in stars and in laboratory conditions), in planetary interiors, in the early universe, and during the final stages of stellar evolution. These conditions can be reproduced in terrestrial laboratories using ultrarelativistic heavy-ion collisions or ultrashort, ultra-intense laser pulses. On one hand, there is a strong scientific drive to push the boundaries of our understanding of matter at high energies. On the other, there is an urgent technological need to develop inertial fusion approaches that could provide a virtually unlimited and clean energy source for the future of humanity. This Special Issue is dedicated to the [WE-Heraeus Seminar](#), to be held from June 22 to June 26, 2025, in Görlitz and at HZDR Dresden, Germany. The Article Processing Charges (APCs) for all submissions from the seminar will be waived, and publication will be free of charge.

Guest Editors

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Prof. Dr. Ralf Schützhold

Deadline for manuscript submissions

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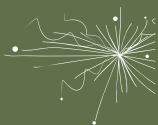


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