Physics Seminar

Wednesday 9/12/2007, 4:30 pm
Science & Engineering Building Auditorium

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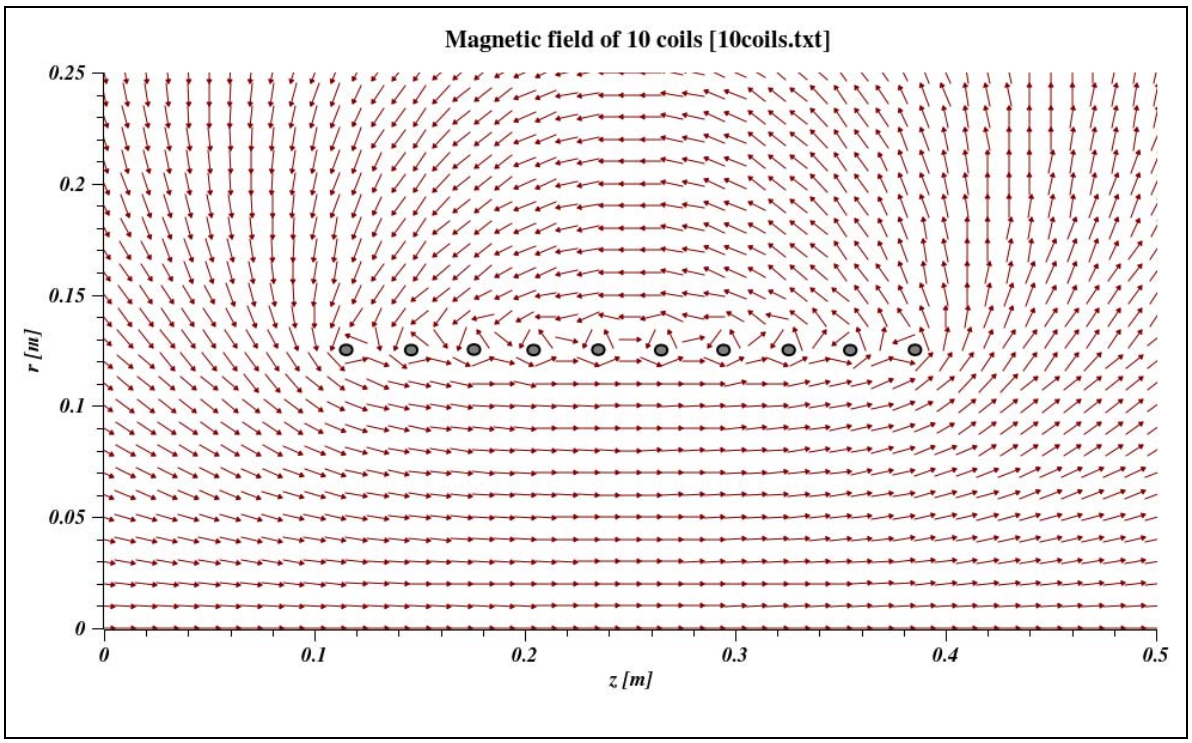
Calculating the Entire Magnetic Field of a Solenoid: An Application of Open Source Tools for Scientific Computing



In introductory physics courses, students are taught how to calculate the magnetic field of various combinations of straight wires and coils. In some cases, such as the magnetic field of a solenoid or a wire coil, only the field at specific locations, such as the center or some distance along the central axis, is calculated. In this talk, I will discuss how the entire field (i.e. off the central axis) can be found. In the process, I will illustrate the use of various tools developed by the Open Source movement for scientific computing.

Please join us for light refreshments at 4:15pm outside SEB 203.