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realistic conditions, the turbulent transport in magnetized fusion plasmas tends to be in a regime for which the cross-field dynamics of tracers can be described neither by Eulerian nor by random walk approaches. Instead, the concept of Lagrangian coherent structures turns out to be a useful tool for studying such systems.

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(PDF) Turbulent Particle Transport in Magnetized Plasmas

This turbulent pinch is predicted by a quasilinear theory of particle transport

(Weiland J et al 1989 Nucl. Fusion 29 1810), and confirmed by non-linear turbulence simulations (Garbet et al 2003 Phys. Rev. Lett. 91 035001) and general considerations based on the conservation of motion invariants (Baker et al 2004 Phys. Plasmas 11 992).

Turbulent Transport in Magnetized Plasmas

Suprathermal ion transport in turbulent magnetized plasmas Bovet, Alexandre Dominique ; Fasoli, Ambrogio ; Furno, Ivo Suprathermal ions, which have an energy greater than the quasi-Maxwellian background plasma temperature, are present in many laboratory and astrophysical plasmas.

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Turbulent Transport in Magnetized Plasmas (Second Edition ...

Electrostatic and magnetic transport of energetic ions in turbulent plasmas T. Hauff,¹ M.J. Pueschel,¹ T. Dannert,² and F. Jenko¹ ¹Max-Planck-Institut für Plasmaphysik, Boltzmannstr. 2, D-85748 Garching, Germany ²Ecole Polytechnique Fédérale de Lausanne, CRPP, CH-1015 Lausanne, Switzerland (Received 28 October 2008; published 20 February 2009) ...

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Turbulent transport in magnetized plasmas F. Jenko MPI für Plasmaphysik, Boltzmannstr. 2, D-85748 Garching, Germany Abstract This is a brief introduction to the area of plasma turbulence from a theoretical perspective. Hopefully, it

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