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The Vlasov-Einstein system describes the evolution of an ensemble of particles (such as stars in a galaxy, galaxies in a galaxy cluster etc.) interacting only by the gravitational field which they create collectively and which obeys Einstein's field equations. The matter distribution is described by the Vlasov or Liouville equation for a collisionless gas. Recent

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Global classical solutions to the spherically symmetric Nordström-Vlasov system - Volume 138 Issue 3 - HÅKAN ANDREASSON, SIMONE CALOGERO, GERHARD REIN

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Vlasov-Poisson system with an attractive force spherically symmetric solutions with negative energy develop singularities in finite time [1]. It is easy to show that in these solutions the first singularity occurs at the center of

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symmetry. On the other hand it was also shown in [1] that spherically symmetric solutions of the

A Regularity Theorem for Solutions of the Spherically ...

Gerhard Rein, Collisionless Kinetic
Equations from Astrophysics - The
Vlasov-Poisson System, ,

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10.1016/S1874-5717(07)80008-9,
(383-476), (2007). Crossref Robert T.
Glassey, Jack Schaeffer, Global Solution
of the Cauchy Problem for the
Relativistic Vlasov-Poisson Equation with
Cylindrically Symmetric Data, Dispersive
Transport Equations and Multiscale
Models, 10.1007/978-1-4419-8935-2_8

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On global symmetric solutions to the relativistic Vlasov ...

In fact, there exist well-known explicit solutions to the Vlasov–Poisson system describing axially symmetric disc galaxies which give rise to flat or even increasing rotation curves. The Mestel discs and the Kalnajs discs are examples

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of such solutions (cf. Binney & Tremaine 1987).

On the rotation curves for axially symmetric disc ...

the axially symmetric Vlasov-Poisson system and Einstein-Vlasov system intensively during the time period 1985-1995. They found many interesting

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and also remarkable results. Static and stationary solutions were obtained. The stability of these solutions were studied. Gravitational collapse was investigated and they claimed that

Properties of axially symmetric stationary solutions of ...

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for axisymmetric solutions to the Einstein-Vlasov system are for solutions that are perturbed of spherically symmetric Newtonian solutions. These results are due to Andr easson et al. in [8] for the static case, and in [9] for the stationary case. It remains an interesting

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open question to

On Axisymmetric and Stationary Solutions of the Self ...

Dynamics of gravitational collapse in the axisymmetric Einstein-Vlasov system 3 unstable states, the solution evolves towards, and oscillates about, an apparently stable steady state. To our

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knowledge the present study is the first investigation of critical behaviour in the Einstein-Vlasov system beyond spherical symmetry. We present results of

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Cauchy problem for the relativistic Vlasov-Poisson system are studied in three space dimensions. If the energy is positive definite (the plasma physics case), global classical solutions exist.

On symmetric solutions of the relativistic Vlasov-Poisson ...

The axially symmetric solutions of the

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resulting Einstein-Vlasov system are obtained via the implicit function theorem by perturbing off a suitable spherically symmetric steady state of the Vlasov ...

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Static solutions Perturbations of static
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GR22, Valencia, 9 July 2019 C. Gundlach
Static massless Einstein-Vlasov 1/9

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Static solutions of the spherically symmetric Einstein ...

In the present note we consider the Vlasov-Einstein system in a spherically symmetric setting and prove the existence of static solutions which are asymptotically flat and have finite total mass and finite extension of the matter.

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Static solutions of the spherically symmetric Vlasov ...

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda):

We consider the Vlasov-Einstein system in a spherically symmetric setting and prove the existence of static solutions which are asymptotically flat and have finite total mass and finite extension of

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the matter. Among these there are smooth, singularity-free solutions, which have a regular center and may have isotropic ...

A.: Smooth static solutions of the spherically symmetric ...

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Vlasov--Poisson system in a rotating setting for sufficiently small angular velocity. The constructed steady states depend on Jacobi's integral and the proof relies on an implicit function theorem for operators.

Existence of axially symmetric solutions to the Vlasov ...

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symmetry, and these types are not
considered further in this paper. A

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spatially homogeneous solution of the Einstein-Vlasov equations has by definition the property that both the geometry and the phase space density of particles are invariant under the group action defining the symmetry type. A similar remark applies to an additional LRS ...

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Dynamics of spatially homogeneous solutions of the ...

We prove the existence of static, asymptotically flat non-vacuum spacetimes with axial symmetry where the matter is modeled as a collisionless gas. The axially symmetric solutions of the resulting Einstein-Vlasov system are obtained via the implicit function

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theorem by perturbing off a suitable spherically symmetric steady state of the Vlasov-Poisson system.

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