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**The blow-up criterion for the compressible Navier-Stokes system with a Yukawa-potential in the critical Besov space.** (English) [Zbl 1340.35248](#)

*Differ. Integral Equ.* 27, No. 9-10, 801-820 (2014).

Summary: We give a refined blow-up criterion for the solution for the compressible Navier-Stokes system with a Yukawa-potential in the critical Besov space [*B. Haspot, J. Differ. Equations* 251, No. 8, 2262–2295 (2011; [Zbl 1229.35182](#))]. The result may be considered as a compressible counterpart of the results for the incompressible Navier-Stokes system.

**MSC:**

[35Q30](#) Navier-Stokes equations  
[35Q35](#) PDEs in connection with fluid mechanics  
[35B44](#) Blow-up in context of PDEs

Cited in **2** Documents

**Keywords:**

compressible Navier-Stokes system; Yukawa potential; critical Besov space