<u>R-Bounded Operator Families Arising from a Compressible Fluid Model of Korteweg</u> <u>Type with Surface Tension in the Half-Space</u>

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Abstract	In this paper, we consider a resolvent problem arising from the free boundary value problem for the compressible fluid model of Korteweg type, which is called as the Navier-Stokes-Korteweg system, with surface tension in the half-space. The Navier-Stokes-Korteweg system is known as a diffuse interface model for liquid-vapor two-phase flows. Our purpose is to show the R-boundedness for the solution operator families of the resolvent problem, which gives us the maximal regularity estimates in the L-p-in-time and L-q-in-space setting by applying the Weis's operator valued Fourier multiplier theorem (Weis in Math Ann 319:735-758, 2001).
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