**自然科学奖：**

一、项目名称：非等熵 Navier-Stokes/Allen-Cahn方程组解的性态研究

二、提名者：江西省教育厅

三、代表性论文（专著）目录：

**[1] Luo Ting**, Yin haiyan，Zhuchangjiang. Stability of composite wave for compressible Navier-Stokes/Allen-Cahn system. **Mathematical Models and Methods in Applied Sciences**,[30](http://210.35.206.14/s/org/ams/mathscinet/G.https/mathscinet/publications-search?query=ji:4120 v:30 iss:2" \o "Search this volume" \t "https://exmail.qq.com/cgi-bin/_blank)([2020](http://210.35.206.14/s/org/ams/mathscinet/G.https/mathscinet/publications-search?query=ji:4120 y:2020" \o "Search this year" \t "https://exmail.qq.com/cgi-bin/_blank)), no. [2](http://210.35.206.14/s/org/ams/mathscinet/G.https/mathscinet/publications-search?query=ji:4120 v:30 iss:2" \o "Search this issue" \t "https://exmail.qq.com/cgi-bin/_blank), 343–385.

[2] **Luo Ting**, Yin haiyan，Zhuchangjiang. Stability of the rarefaction wave for a coupled compressible Navier-Stokes/Allen-Cahn system. Mathematical Methods in the Applied Sciences,2018,41(12):4724-4736.

[3] **Luo Ting**. Asymptotic stability of traveling wave solutions for compressible planar magnetohydrodynamics systems. [Acta Math. Sinica (Chinese Ser.)](http://210.35.206.14/s/org/ams/mathscinet/G.https/mathscinet/serials/profile?journalId=4932" \o "Acta Mathematica Sinica. Chinese Series." \t "https://exmail.qq.com/cgi-bin/_blank)   [67](http://210.35.206.14/s/org/ams/mathscinet/G.https/mathscinet/publications-search?query=ji:4932 v:67" \o "Search this volume" \t "https://exmail.qq.com/cgi-bin/_blank) ([2024](http://210.35.206.14/s/org/ams/mathscinet/G.https/mathscinet/publications-search?query=ji:4932 y:2024" \o "Search this year" \t "https://exmail.qq.com/cgi-bin/_blank)), no. [5](http://210.35.206.14/s/org/ams/mathscinet/G.https/mathscinet/publications-search?query=ji:4932 v:67 iss:5&sort=paging" \o "Search this issue" \t "https://exmail.qq.com/cgi-bin/_blank), 859–877.

[4] **Luo Ting**. Stability of the Rarefaction Wave for a Non-isentropic Navier-Stokes/Allen-Cahn System. Chinese Annals of Mathematics,Series B,2022,43(2):1-20.

[5]**Luo Ting .**Stability of Stionary for inflow problem on the coupled Navier-Stokes/Allen-Cahn system. Applicable Analysis, 101 (2022), no. 16, 5775–5791.

四、完成人（完成单位）：罗婷（江西财经大学）