[PO-11] Numerical Simulation of Gas-Liquid Two-Phase Flow with Phase Change for Engineering Applications

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⁽¹⁾ Fuke, H. et al., JPS Conf Proc. 18, 011003, (2018). (2) Okazaki, S. et al., Applied Thermal Engineering, 141, (2018), 20-28. (3) Institute of Space and Astronautical Science. Topics, Scientific Ballooning B12-01, JAXA. (2012) https://www.isas.jaxa.jp/j/topics/topics/2012/0604.shtml (4) Sato, Y., Niceno, B., Journal of Computational Physics, 249, (2013), 127-161. This calculation was supported by the Joint Research Center for Large-Scale Interdisciplinary Information Infrastructure (JHPCN) jh240076