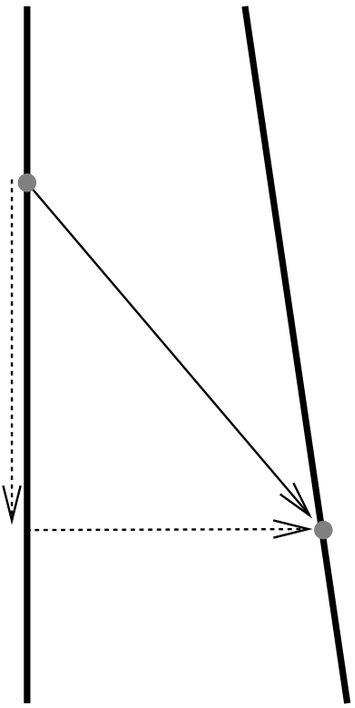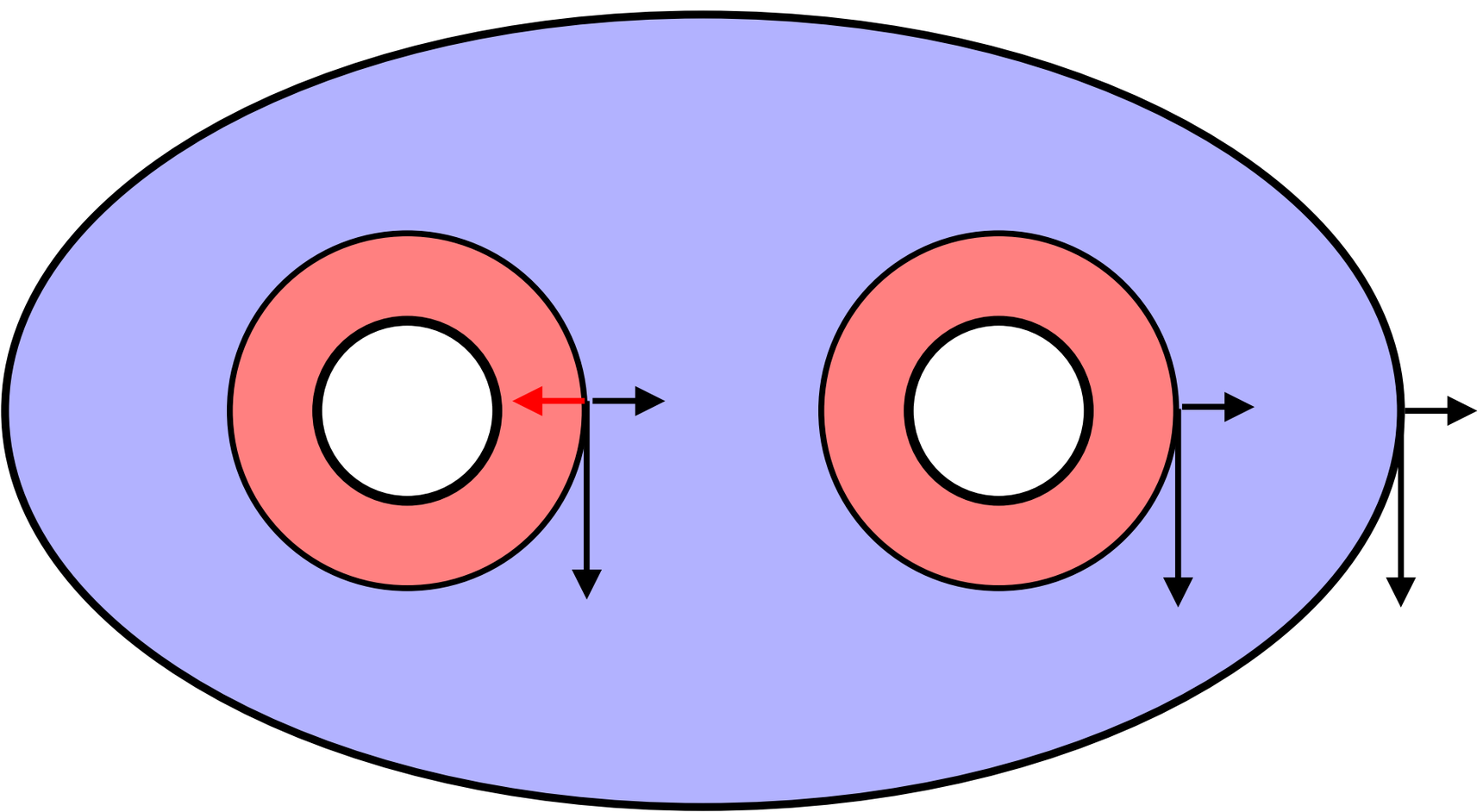arXiv:0902.3923v1 [gr-qc] 23 Feb 2009 fig