

Junction conditions with the generalized Vaidya metric

G. Govender* and S. Maharaj

University of KwaZulu-Natal

200301326@ukzn.ac.za, maharaj@ukzn.ac.za

SAMS Subject Classification: Mathematical Physics

We generate the junctions conditions at the stellar surface by matching the generalized Vaidya metric to the interior spacetime which is spherically symmetric and radiating. We establish that the radial pressure depends on the magnitude of the heat flux and the relativistic mass function. Some physical consequences of our result are briefly explored.