Accepted Manuscript

On the phase-lag heat equation with spatial dependent lags

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 PII:
 S0022-247X(17)30510-3

 DOI:
 http://dx.doi.org/10.1016/j.jmaa.2017.05.050

 Reference:
 YJMAA 21411

To appear in: Journal of Mathematical Analysis and Applications

Received date: 22 September 2016



Please cite this article in press as: Z. Liu et al., On the phase-lag heat equation with spatial dependent lags, *J. Math. Anal. Appl.* (2017), http://dx.doi.org/10.1016/j.jmaa.2017.05.050

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ACCEPTED MANUSCRIPT

<u>Title</u>: On the Phase-lag Heat Equation with Spatial Dependent Lags

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Proposed running head: On the Time Decay for the Phase-lag Heat Equation with Spatial Dependent Lags

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<u>Abstract</u>: In this paper we investigate several qualitative properties of the solutions of the dual-phase-lag heat equation and the three-phase-lag heat equation. In the first case we assume that the parameter τ_T depends on the spatial position. We prove that when $2\tau_T - \tau_q$ is strictly

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