2007 Vol. 48 No. 1 pp. 93-98 DOI:

Modified Wave Particle Duality and Black Hole Physics

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Abstract: de Broglie relation is revisited, in consideration of a generalization of canonical commuting relation. The possible effects on particle's localization and black hole physics are also discussed, in a heuristic manner.

PACS: 04.60.-m, 04.70.Dy Key words: wave-particle duality, dispersion relation, localization limit, black hole entropy

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