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## Indifferentiability of the Hash Algorithm BLAKE

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**Abstract:** The hash algorithm BLAKE, one of the SHA-3 finalists, was designed by Aumasson, Henzen, Meier, and Phan. Unlike other SHA-3 finalists, there is no known indifferentiable security proof on BLAKE. In this paper, we provide the indifferentiable security proof on BLAKE with the bound O(\delta^2/2^{n-3}), where \delta is the total number of blocks of queries, and n is the hash output size.

Category / Keywords: hash function

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