

having exploited (26). Since it is

$$H^i - 1 < H^i, \quad i \geq 0,$$

we also have $f(H) < 1$, and finally

$$\lim_{r_0 \rightarrow \infty} \left(\sum_{i=0}^{\infty} \mathcal{R}_i \right) / \left(\sum_{i=0}^{\infty} R_i \right) = 1.$$

ACKNOWLEDGMENT

L. Barletta was supported by the Technische Universität München - Institute for Advanced Study, funded by the German Excellence Initiative.

This work has been partially supported by the Italian Ministry for Education, University and Research (MIUR) through the national cluster project SHELL, Smart Living technologies (grant number: CTN01 00128 111357).

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