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O. Zaslavskii: Radially moving frames and flows under the black hole horizon

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We give brief review of our recent works. We consider several different aspects connected with properties of motion inside the Schwarzschild black hole. We elucidate, how (i) to maximize the survival proper time and (ii) how to make a visible part of the outer universe as large as possible before hitting the singularity. We also consider red(blueshift) of photons that an observer absorbs during its travel. General classification of radially moving frames is suggested and properties of corresponding Lemaitre time are described. The relation between the BSW effect and properties of frames is discussed.

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