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Proposed are: the sizing of Taylor vortex, the size of turbulent and laminar boundary layers of water, the dispersion rate, dissipative Taylor function and high frequency pulsations spectrum interval of the vertical velocity component in the laminar boundary layer of turbulent water flow based on the assessment of Taylor vortices and the dispersion of water velocity on the edge of turbulent and laminar boundary layers and at the upper boundary of the lower monomolecular layer of water that is in direct contact with the stream bottom.

Keywords: Taylor vortex; turbulent border layer; laminar boundary layer; dispersion of the vertical component of water velocity; Taylor dissipative function; high-frequency spectrum interval; pulsation of the vertical velocity component; turbulent water flow.

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