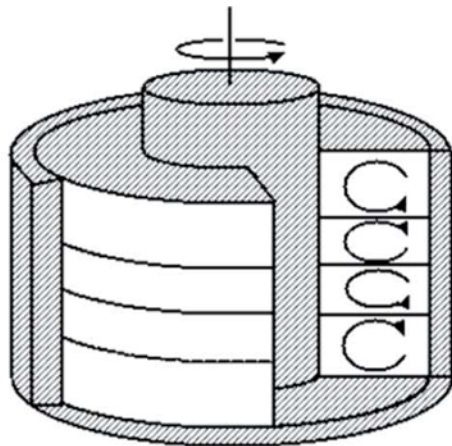


**Visual Information in Accelerating Taylor-Couette Flow**

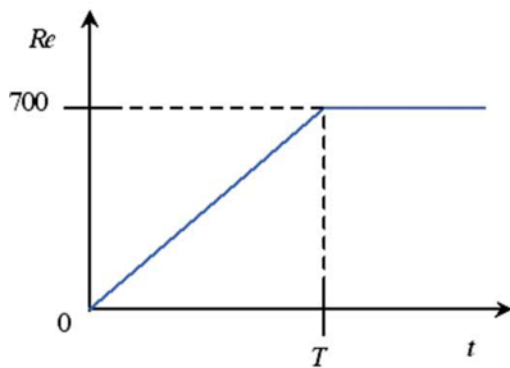
*Furukawa, H.<sup>1)</sup> and Watanabe, T.<sup>2)</sup>*

1) Graduate School of Human Informatics, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, 466-8601, Japan

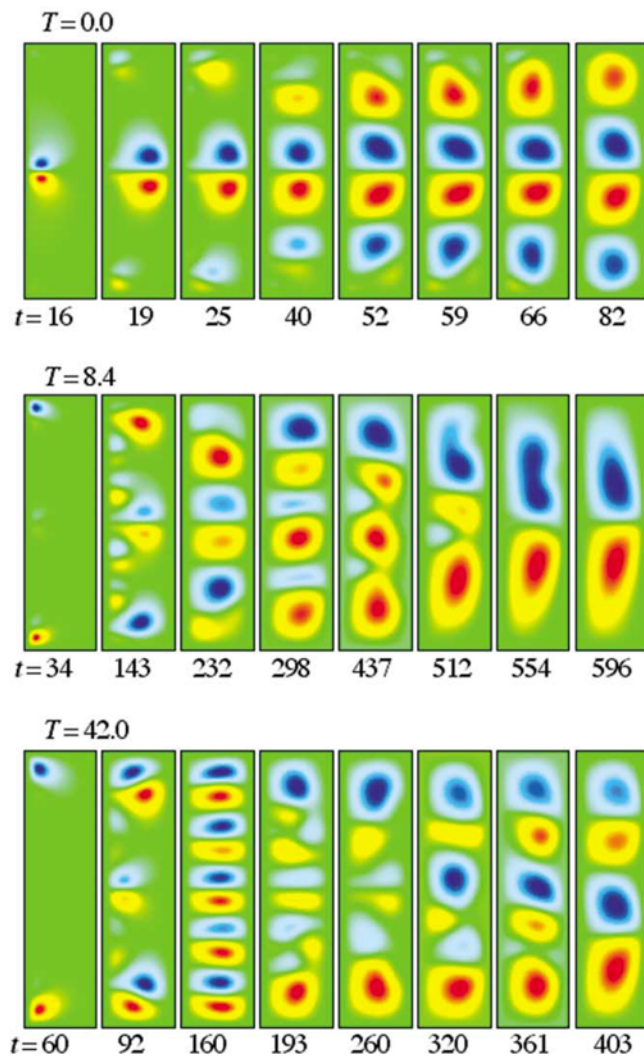
2) Center for Information Media Studies, Nagoya University, Furo-cho, Chikusa-ku, Nagoya, 466-8603, Japan



Taylor-Couette Flow and Counter-rotating Vortices.



Time Variation of the Reynolds Number in Accelerating Flows.



Taylor-Couette flow between two-concentric accelerated cylinders with finite length is investigated numerically. These figures give flow patterns in the meridional section. The rotating inner cylinder is on the left and the stationary outer cylinder is on the right. The warm color and cold color represent vortices rotating in a clockwise direction and counter-clockwise direction, respectively. The aspect ratio is 4.0 and the Reynolds number is 700. The non-dimensional time is  $t$  and the flow at rest is accelerated during time  $T$ . The differences of the acceleration time cause the non-unique patterns of Taylor-Couette flow.