



## Random return map from time series and its applications

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**Abstract**– Random return map from time series is studied in terms of random dynamical systems theory. Applications to fluid dynamics and physiological rhythms are exhibited.

### References

- [1] Yuzuru Sato, Makoto Iima, and Yuji Tasaka, "Random Dynamics from Time Serieses of Rotating Fluid," Proceedings of JSIAM08, p317-318, (2008). in Japanese.
- [2] Yuzuru Sato, "Noise-induced phenomena in one-dimensional maps," RIMS Technical Report, No. 1688, p137, Kyoto University, (2010). in Japanese.