Extreme events in forced Liénard system

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We observe extremely large amplitude intermittent spiking in a dynamical variable of a periodically forced Liénard type oscillator and characterize them as extreme events with a long-tail distribution. Extreme events are located in parameter space of the system by constructing bifurcation diagrams with forcing frequency. We explain the mechanisms of the origin of extreme events. We evidence the extreme events in an electronic experiment of the Liénard oscillator that shows perfect agreement with the numerical results.