

$F, T^{-1}(F), T^{-2}(F), \dots$ are pairwise disjoint) one can see that in a charge space a transformation is conservative iff for every set A of positive charge and for every n , almost every point of A is n -times recurrent.

The other aspects of Ergodic Theory for charges are being worked out by the Authors.

*Accettato per la pubblicazione su
parere favorevole di R. Scozzafava*

REFERENCES

- [1] H. Poincaré, *Sur le problème de trois corps et les équations de la dynamique* Acta Math. 13 (1890), 1-270
- [2] C. Carathéodory, *über den Wiederkehrsatz von Poincaré*, Sitzungsberichte der Preussischen Akad der Wiss 32 (1919) 580-584.
- [3] E. Hewitt K. A. Ross - *Abstract harmonic Analysis I*, Springer-Verlag (1963)
- [4] E. BARONE, K.P.S. BHASKARA RAO, *Misure di probabilità finitamente additive e continue, invarianti per trasformazioni* (in print).

E. BARONE - ISTITUTO DI MATEMATICA - Via Arnesano - 73100 LECCE (Italy)

K.P.S. BHASKARA RAO , INDIAN STATISTICAL INSTITUTE - CALCUTTA (INDIA)