

R. Ananthakrishnan for critically reviewing the paper.

17 August 1987

1. Ananthakrishnan, R., Parthasarathy, B. and Pathan, J. M., *Contribution to marine sciences dedicated to Dr C. V. Kurian*, 1979, p. 60.
2. Singh, N. and Soman, M. K., *J. Climate Appl.*

*Meteor.*, 1987 (under review).

3. WMO, *climatic change*, WMO Tech. Rep. No. 79, 1966, WMO-195, TP-100, p. 80.
4. Srinivasan, V., Mukherji, S. and Ramamurthy, K., *Forecasting manual*, IMD, 1972. FMU Rep. No. III-3.8, p. 41.
5. WMO, *drought and agriculture*, WMO Tech. No. 138, WMO No. 392, 1975, p. 17.

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## ANNOUNCEMENT

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### SUMMER SCHOOL ON DYNAMICAL SYSTEMS

Miramare – Trieste, Italy.  
16th August – 9th September 1988

The International Centre for Theoretical Physics will organize a 4-week Summer School on Dynamical Systems from Tuesday 16th August to Friday 9th September 1988. It will be directed by Professor J. Palis, (IMPA, Rio de Janeiro, Brazil), and Professor E. C. Zeeman (University of Warwick, Coventry, UK).

The aim of the Summer School is to introduce participants to the modern theory of dynamical systems, and to survey recent developments and current research problems.

The Summer School will be divided into two parts. The first two weeks will be devoted to elementary lectures on the mathematical prerequisites:

1. Topology; 2. Qualitative ordinary differential equations; 3. One complex variable; 4. Elementary probability and ergodic theory; and 5. Computing and experiments.

The second two weeks will be mainly devoted to the foundations of the subject:

1. Introduction to dynamical systems;
2. Introduction to rational maps and complex flows;
3. Introduction to singularity theory and applications;
4. Introduction to smooth ergodic theory; and 5. Introduction to computational dynamics.

Lectures will be given by: C. Camacho, R. S. MacKay, R. Mañé, J. Palis, P. Sad, E. C. Zeeman.

In addition, the 4th week will honour and celebrate the 65th birthday of René Thom. During this week there will be a number of survey lectures by several eminent mathematicians including R. Devaney, J. Mather, R. Moussu, S. Newhouse, S. Smale, F. Takens, R. Thom, R. F. Williams, J-C.

Yoccoz and E. Zehnder.

The Summer School is primarily intended for gifted young mathematicians from developing countries, especially those from African, Asian and Arabian countries. Preference will be given to research students and/or younger applicants, aged 22–35. Some graduate training is preferred (Ph.D., or M.Sc., or the equivalent) but published research is not essential. Applicants are invited to submit either a list of publications, and/or an outline of current work, (at most 2 pages) and/or one or two letters of recommendation. The selection committee will be grateful for any additional information that will help them.

The Summer School will be more elementary than previous Workshops in Dynamical Systems at Trieste, and it is emphasised that previous training in the subject is not essential. A good working knowledge of the English language is essential.

As a rule, travel and subsistence expenses of the participants should be borne by the home institution. However, a limited number of financial grants are available for students and researchers from developing countries, but preference will be given to those who can obtain at least partial travel support from local sources. Travel support is available only to those who attend the entire activity.

The closing date for receipt of requests for participation is **31st January 1988**.

The completed "Request for Participation" forms, should be sent to: **International Centre for Theoretical Physics Summer School on Dynamical Systems, P.O. Box 586, I-34100, Trieste, Italy.**