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EVOLUTION OF MATHEMATICS RESEARCH AND PUBLICATIONS IN SPAIN IN THE LAST DECADE (1990-1999)

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Responsible of the Spanish Research Programme
on Mathematics



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EVOLUTION OF MATHEMATICS RESEARCH AND PUBLICATIONS IN SPAIN IN THE LAST DECADE (1990-1999)

From the Report

La investigación matemática En España en el período 1990-1999

Coordinated by Carlos Andradas and Enrique Zuazua

Math production on the MathSciNet data basis of AMS

Decade	España	EU	World
1940-1949			32595
1950-1959			73863
1960-1969			135347
1970-1979			279882
1980-1989	3334	45922	349463
1990-1999	11504	104231	481105
Total	14839	150190	1352255



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MATH PRODUCTION IN SPAIN IN ISI INCREASED FROM
1,7% IN 1990 TO 4,18% IN 2000.

WE ARE NOW AMONG THE TOP 10.

AND WE ARE STILL GROWING!

ICM06 WILL BE IN MADRID!



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In Spain, production in Mathematics occupies the third position among all scientific disciplines.

The position by Mathematics in Spain is only improved by France, in which Mathematics are first among all disciplines.

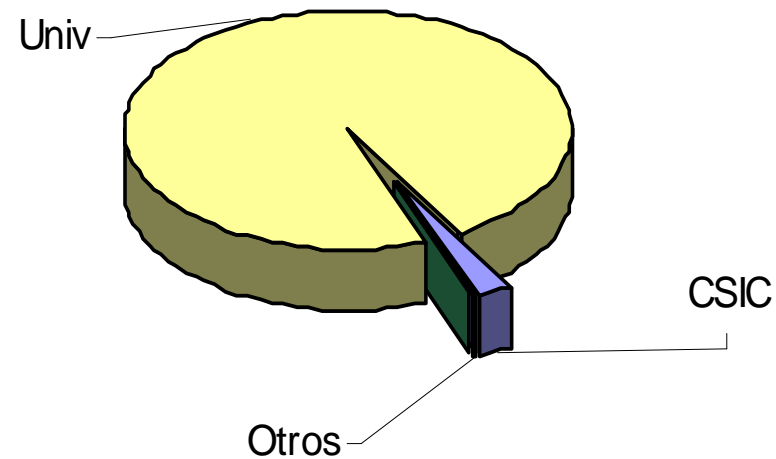
Country	%	Order	Relative impact
España	4,18%	3 ^o	-16
Alemania	9,88%	4 ^o	2
Australia	2,78%	12 ^o	15
Bélgica	1,24%	11 ^o	46
Dinamarca	0,79%	15 ^o	52
Estados Unidos	35,43%	15 ^o	29
Francia	12,25%	1 ^o	2
Holanda	1,79%	21 ^o	14
Italia	4,80%	6 ^o	-2
Japón	5,26%	16 ^o	-21
Noruega	0,49%	16 ^o	35
Reino Unido	6,72%	21 ^o	26
Suecia	1,30%	20 ^o	-2
Suiza	1,25%	16 ^o	31



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98,6% of the Mathematical research in Spain is being developed in Universities

Producción matemática por sector institucional

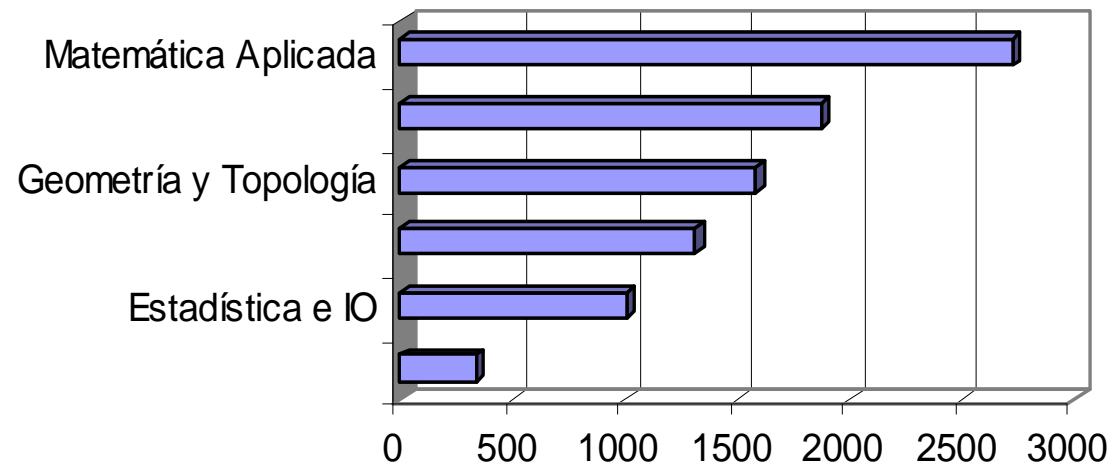




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Applied Mathematics is the leading area.

Producción por Área de Conocimiento

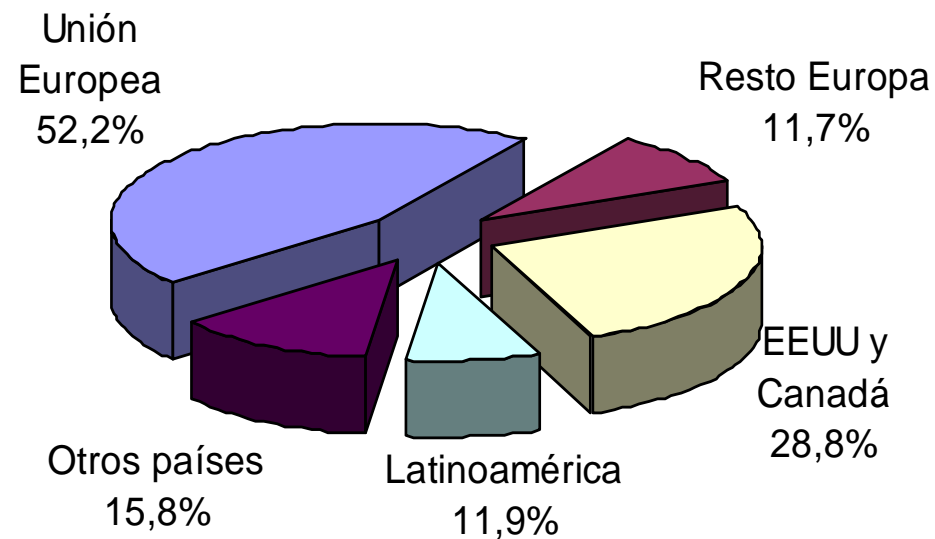




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A very important part of math research in Spain is being developed with the collaboration of teams and researchers in other countries. This collaboration is particularly important with the EUROPEAN UNION.

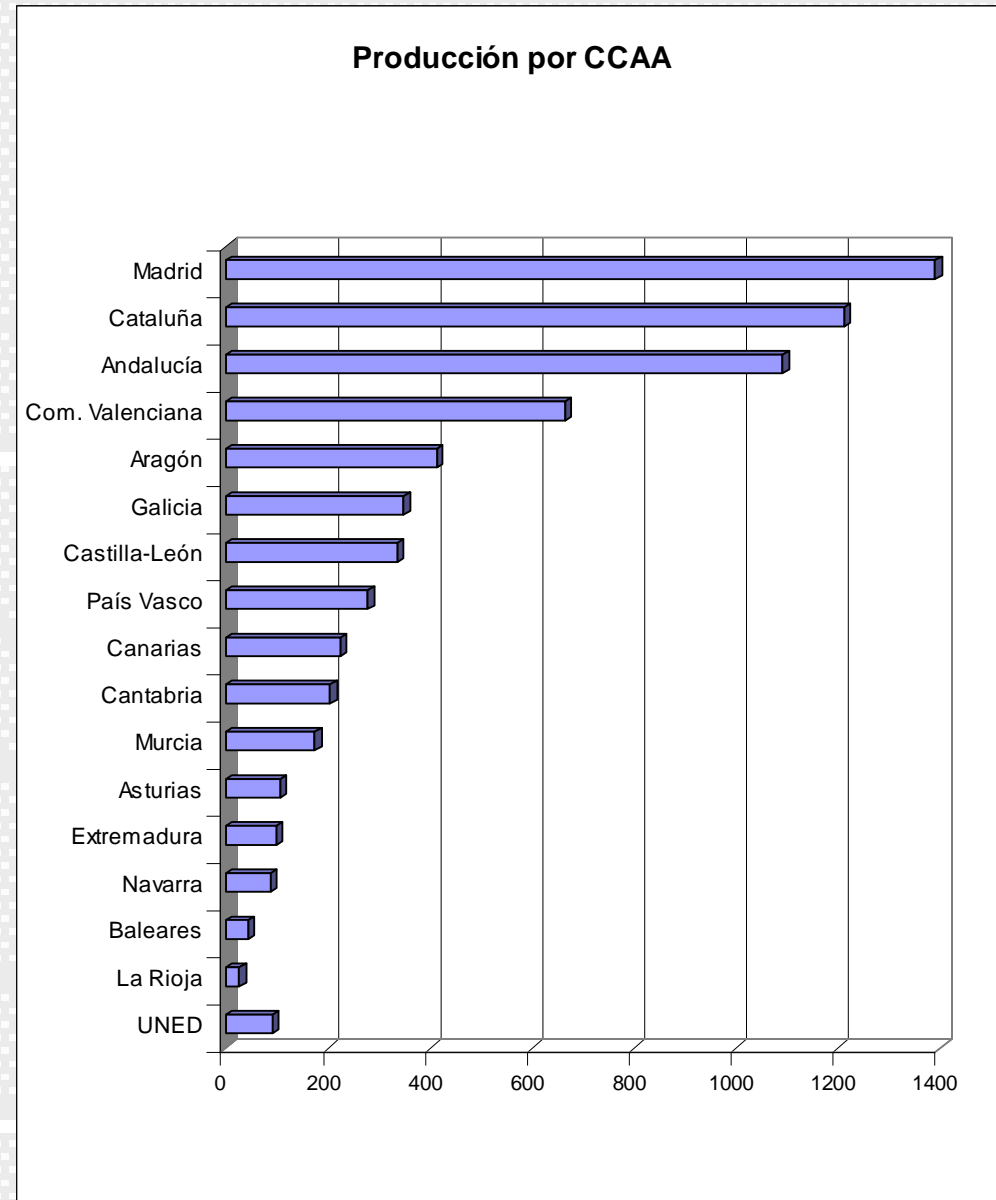
Colaboración internacional





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Most of math research is developed
in Madrid, Cataluña and
ANDALUCIA





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THE NEXT INTERNATIONAL CONFERENCE OF
MATHEMATICS WILL BE HELD IN MADRID IN
AUGUST 2006.

THIS IS A NATURAL CONSEQUENCE OF THE
WORLD WIDE RECOGNITION OF
MATHEMATICAL RESEARCH THAT SPAIN IS
DEVELOPING.

THAT WILL BE A GREAT EVENT. COME TO VISIT
US.



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THE GUIDELINES FOR MATHEMATICAL FUNDING AT MCYT

- We are following this superb growth of Mathematics.
- The funding is being increased every year.
- Each year 100 new research projects are approved out of 140.
- The total funding is of the order of 4Meuros.
- But, we have to add to this important programs in Pre and Postdoc fellowships, Especial Actions (conferences, publications,...),...
- The MCYT enhances and recognizes the increasing effort of math researchers to get closer and closer to real world problems.
- To do that the MCYT has a close interaction with the leaders of research teams through a direct communication with the person in charge (E. Zuazua) but also within periodic, informal, but quite effective meetings.
- The MCYT understands that Mathematics need to be recognized as a whole, as a distinguished discipline and that splitting may damage all areas of Mathematics.
- The further increase of applicability and intrinsic quality of Spanish mathematics will come by kipping all Mathematics together and by a more vigorous and increasingly selective funding policy.



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The same can be said about applicability of math research. We do enhance it and provide extra support to mathematical research groups that do really interact with other scientists and industry.

But we do understand also that pure, fundamental research in Mathematics of top quality needs to be supported to attack the challenges of the new century.

We do promote collaboration within different programs.

For all this reasons ERCIM is specially welcome to Spain as a natural melting pot for TIC and