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ING bibliography and publication rate (1999)

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Publications: Bibliography and Analysis

Bibliography

Below is the list of research papers published in 1999 that resulted from observations made at the Isaac Newton Group of Telescopes (ING). We have considered only papers appearing in refereed journals, although many useful data have also appeared elsewhere, notably in workshop conference proceedings and PhD theses. The search has been done throughout the principal international refereed journals, including *Nature*, *Science*, *Monthly Noticies of Royal Astronomical Society* (MNRAS), *Astrophysical Journal* main, letters and suplements (ApJ,ApJS), *Astronomical Journals* (AJ), *Astronomy & Astrophysics (AA)*, *Astronomy & Astrophysics Supplement Series* (AASS), *Publications of Astronomical Society of Pacific* (PASP), *Publications of Astronomical Society of Australia* (PASA), *New Astronomy* (NA), *New Astronomy Review* (NARev), *The Observatory*, *Astrophysics & Space Science* (ASS), *Revista Mexicana de Astronomía* (RMex), *Optics Letters* (OpLet) and *Planetary & Space Science* (PSS). We have not include *Icarus*, *Irish Astronomical Journal* and *Space Science Review*, in the search. These three journals contributed less than 2% in preceeding counts.

The list totals 245 publications. 119 publications contain results from WHT, 81 contain results from INT and 45 contain results from JKT. Note that papers containing results from more than one telescope have been credited to each telescope used.

WHT

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6)" Differential atmospheric refraction in integral-field spectroscopy: Effects and correction " ,1999, *AASS* ,**136**,189 ,S Arribas ,E Mediavilla ,B García-Lor,C del Burgo ,J J Fuensalida

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Analysis

As we have mentioned above the list contains 245 articles, 42 of them including results from more than one telescope. 119 papers contain results from the WHT, 81 contain results from the INT, and 45 from the JKT. The corresponding numbers for 1998 were 228 (ALL), 118 (WHT), 72 (INT), and 38 (JKT). There has been an increase of the ~8% in the total number of articles, larger for the INT (~13%) and JKT (~18%). Figure 1 shows the distribution of the number of research papers from 1984 until 1999, divided by telescope. It is possible to see that the 1999 number of papers is the highest to date. These papers have been produced by 958 authors.

A significant fraction of the articles were based on data from more than one telescope (~21%). This fraction increases inversely with the size of the telescope (~44% for JKT, ~34% for INT and ~25% for WHT). The fraction of articles based on more than one instrument on the same telescope is small (~4%).

By Instruments

Figure 2 shows the percentages of articles by instruments for the WHT (left) and INT (right). JKT was a single-intrument telescope in 1999. In this figure the visitor instruments were classified as "other". The instruments that produced most articles were ISIS (~51%) for the WHT and IDS for the INT (~57%). In general, it is possible to see that the majority of the articles use data from instruments dedicated to spectroscopy. If we compare the percentage of articles by instrument with the percentage of allocated nights for these instruments (during 1997 and 1998), we would have a possible estimation of the productivy of each instrument.

Table 1 lists the result of this analysis: In this table is included, for each instrument, the percentage of articles by instrument, the ratio between this percentage and the percentage of allocated nights during the defined period. It is possible to see that the number of articles by the number of allocated time is roughly of the same order for all the instruments.

By Journals

Figure 3 shows the percentage of articles by the different "scanned" journals. The data from ING telescopes are mainly published in MNRAS (~36%), followed by AA (~24%) and ApJ (~20%). Approximated 69% of articles have been pulished in European journals (It is interesting to note here the excellent number of articles published in "top-cited" journals: Four articles were published in *Nature* and one article in *Science*)

By Nationalities

We have divided the number of articles by nationality of the institution of the first author, and compared with previous years. The sample of national groups comprises the countries with their own allocation committee, *United Kingdom*, *The Netherlands*, *Spain*, and *Others*. Figure 4 shows the result from this analysis. The fraction of publications by countries shows a decrease

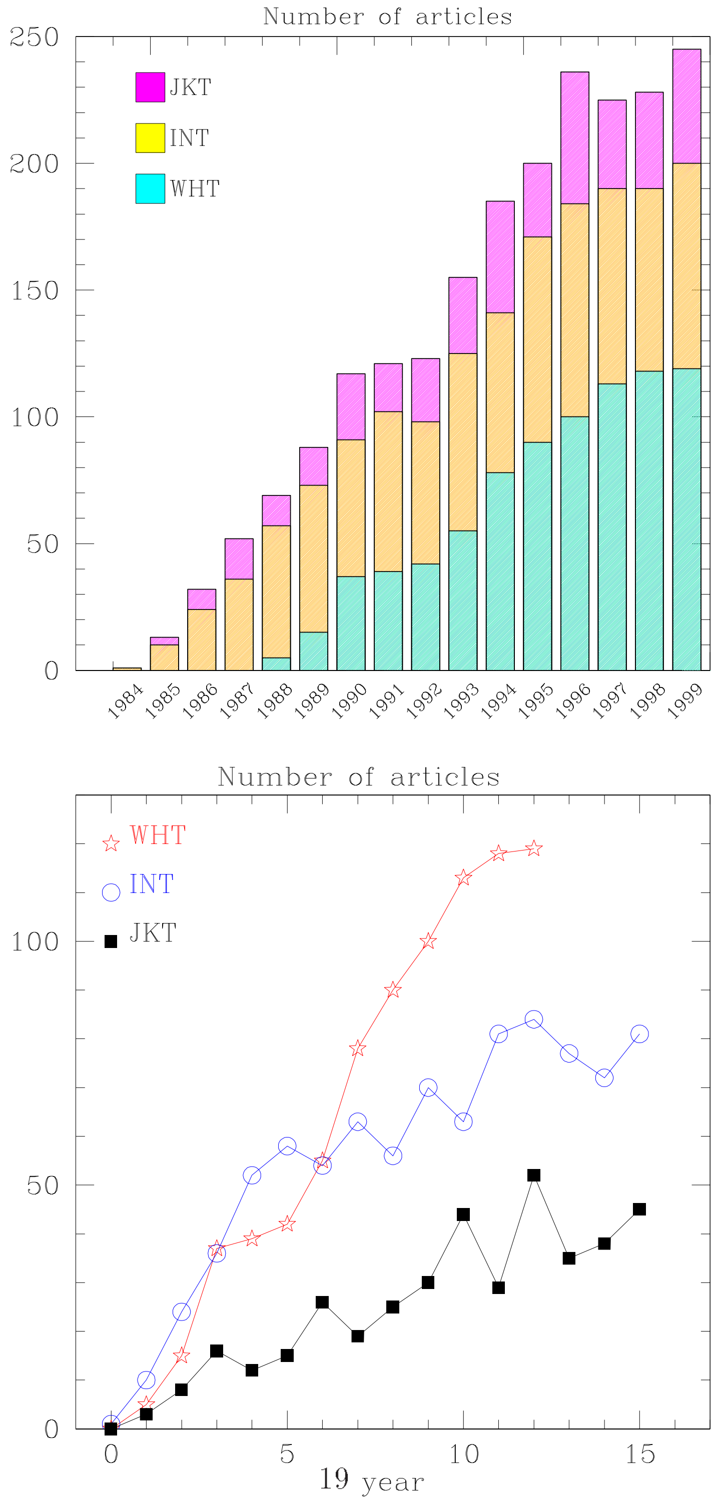

Figure 1: Number of research articles from 1984 until 1999 (*upper pannel*) and from the first operative year (*lower pannel*), resulting from data obtained with ING telescopes

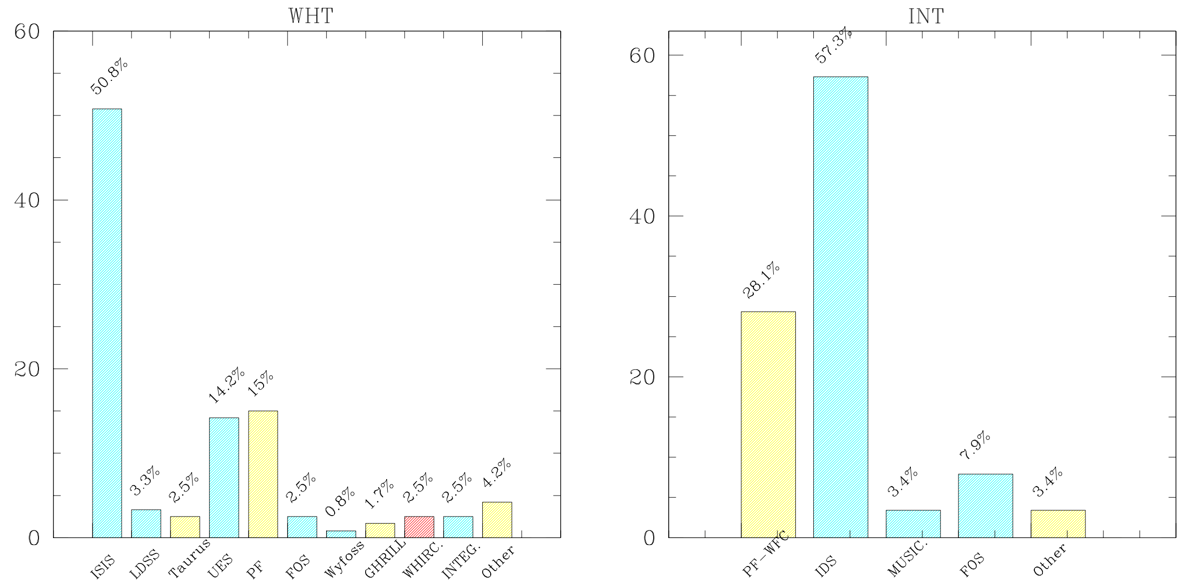

Figure 2: Percentage of articles by instrument for the WHT(left) and INT(right). The instruments dedicated to spectroscopy were indicated by blue. The NIR instruments by by red" , and the other instruments by by yellow.

Table 1: Number of articles by instrument and its productivity

WHT instrument	% of art.	%/nights
ISIS	50.8%	1.17
LDSS	3.3%	0.23
TAURUS	2.5%	0.41
UES	14.2%	1.53
PF	15.0%	1.24
WYFOSS	0.8%	0.10
WHIRCAM	2.5%	0.26
INTEGRAL	2.5%	1.42
INT instrument	**% of art.**	**%/nights**
PF/WFC	28.1%	0.69
IDS	57.3%	1.29
MUSICOS	3.4%	0.18

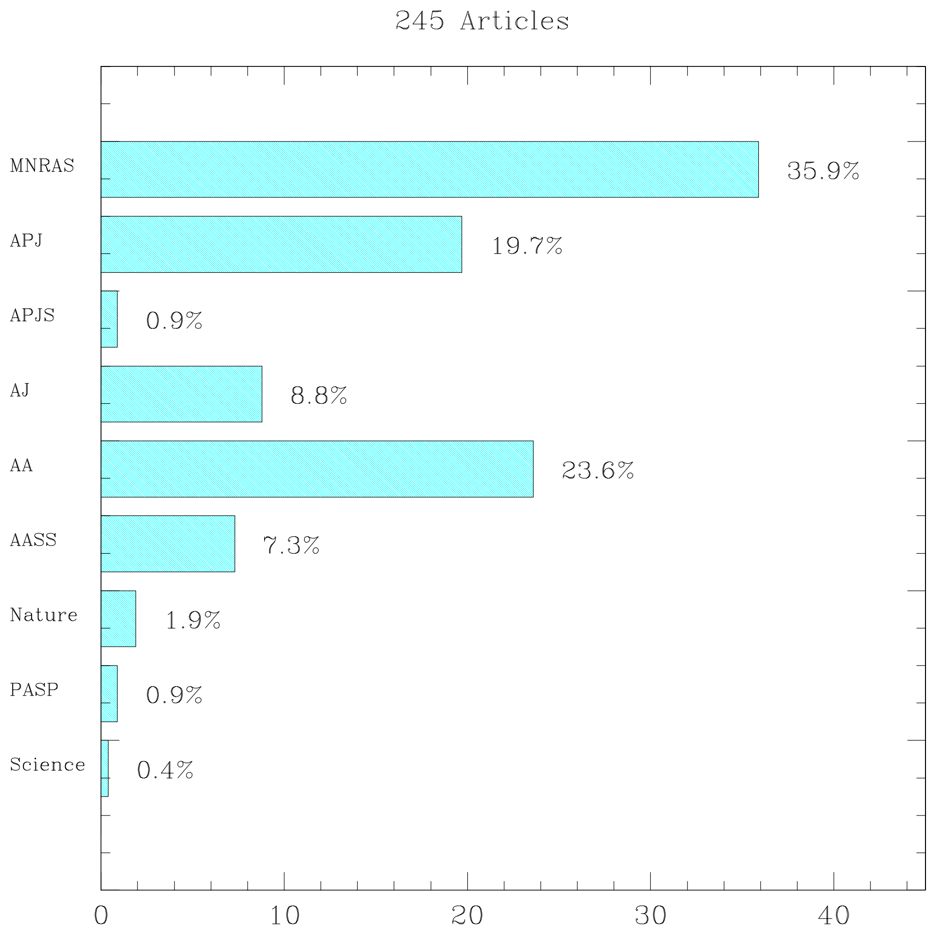

Figure 3: Percentage of articles by the different scanned Journals

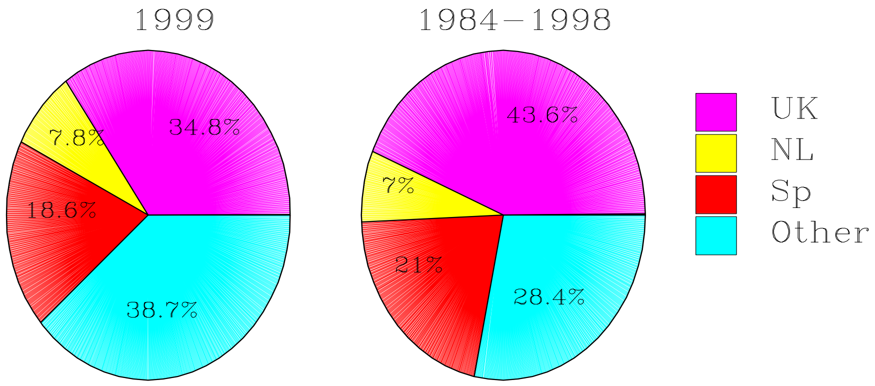

Figure 4: Percentage of articles by nationality for 1999 (left) and the previous years (right)

for the UK and Spanish authors, a smooth increase for the NL, and a clear increase for the *other* countries fraction. The authors from *other* nationalities come from a large variety of countries (20), but the ones with larger contributions were *USA* (∼43%), Italy (∼10%), Germany (∼6%) and France (∼6%).

A comparison of the number of articles by nationality with the fraction of allocated time by country shows that only for Spain are both percentages similar for the current (1999) and previous years (∼20%). For the United Kingdom and the Netherlands, the fraction of articles drops to near half of the allocated time.

Figure 5 shows the distribution by nationality of the co-authors by national group of the first authors: i.e., for each article with a first author of a certain national group, the nationallity of the co-authors is analyzed. It is possible to see that both UK and Spanish principal authors collaborate with astronomers from their own national group (∼70%), but the NL astronomers use to collaborate more with people from other countries (∼58%). It is also interesting to note here that the principal authors from other countries (lower-right panel in figure), collaborate even more widely with astronomers from different countries than UK, NL or Spain (∼75%).

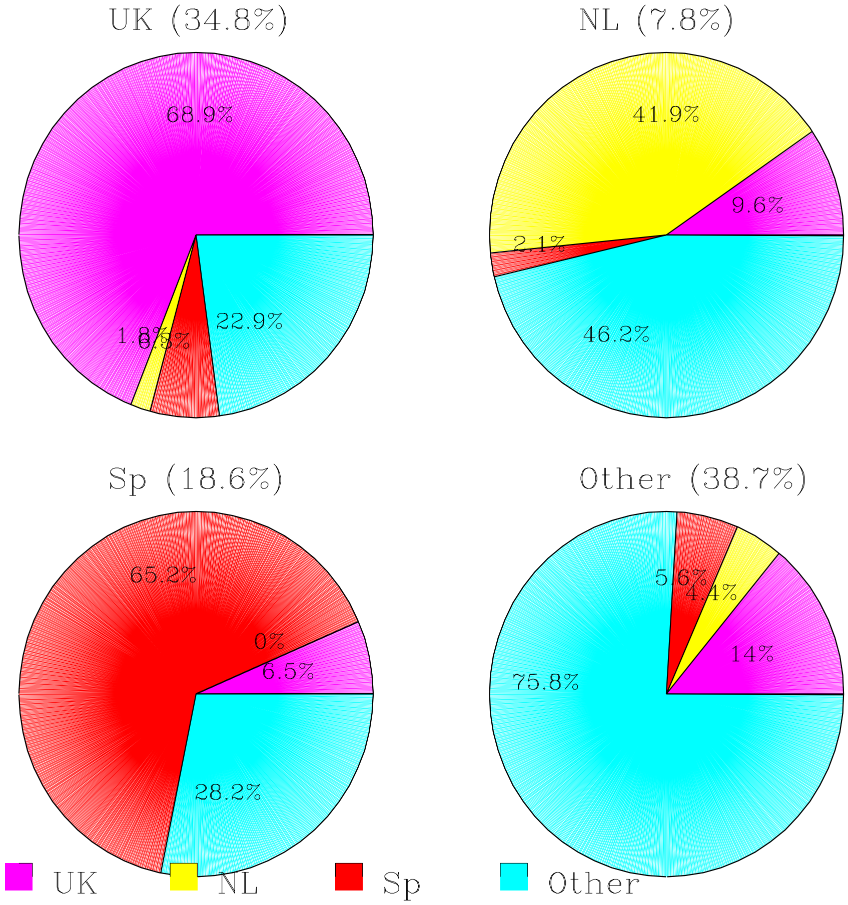

Figure 5: Percentage of co-authors from the different national groups by national group of the first author.