

# 力学系通信

NO. 21 (1994/03)

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笹野 一洋

e-mail : ksasano@tansei.cc.u-tokyo.ac.jp  
FAX : 0764 - 34 - 4656 (「数学・笹野」宛にお願いします。)  
snail mail : 〒930-01 富山市杉谷2630 富山医科薬科大学 数学教室  
tel : 0764 - 34 - 2281 ext. 2740

## 1次元力学系研究集会の講義録について

1992年5月19 - 24日に中津川研修センターで行われた「一次元力学系研究集会 -リノーマライゼーションを中心にして-」の報告集が、「一次元力学系のリノーマライゼーション (Seminar Notes on Differential Topology #12)」として出版されました。当該研究集会の出席者の方には既にお送りしてありますが、それ以外で送付を希望される方は、京都大学・国府寛司氏に連絡してください。(国府氏は4月中旬まで訪仏の予定です。)

## 学会・シンポジウム情報 (国内)

International conference on dynamical systems and chaos - Tokyo 1994

1994年5月23日 - 27日 東京都立大学

問い合わせ: ICDC Secretariat, Department of Physics, Tokyo Metropolitan University

tel: 0426 - 77 - 1111 ext. 3375

FAX: 0426 - 77 - 2483

e-mail: saito@phys.metro-u.ac.jp

## 学会・シンポジウム情報 (国外)

Colloque "points paraboliques" a Luminy

1994/04/25 - 29 at Luminy

Organizer: A. Douady, P. Sentenac (Orsay) [e-mail: sentenac@suntopo.matups.fr]

Second conference on function spaces

1994/05/25 - 28, Southern Illinois University at Edwardsville.....[巻末資料 1 参照]

Conference on the interaction between functional analysis, harmonic analysis, and probability

1994/05/30 - 06/03, University of Missouri-Columbia.....[巻末資料 2 参照]

## 学会・シンポジウム報告

Foliations Tokyo 1993

1993/11/15 - 26, Chuo University and TITech.....[巻末資料 3 参照]

Dynamical Zeta Functions

1993/12/5 - 11, Oberwolfach.....[巻末資料 4 参照]

## プレプリント情報

( [ ] 内は、所有者 (敬称略) )

[足立 俊明 (名古屋工業大学教養部数学教室) ]

Pollicott, M., Large deviations, Gibbs measure and closed orbits for hyperbolic flows.

Pollicott, M. and Sharp, R., Orbit counting for some discrete groups acting on simply connected manifolds with negative curvature.

Pollicott, M. and Sharp, R., Automatic group structures and comparison theorems in hyperbolic geometry.

[松岡 隆 (鳴戸教育大学数学教室) ]

Bothe, H. G., Expanding attractors with stable foliations of class  $C^0$ .

Bothe, H. G., The Hausdorff dimension of certain attractors.

Jiang, B., Estimation of the number of periodic orbits.

Marzantowicz, W., Finding periodic points of a smooth mapping using Lefschetz numbers of its iterations.

## プレプリントの ftp システムについて

これまでも力学系通信において幾つか紹介してきましたように、最近、プレプリントを集めた ftp, ftp-mail 等のシステムが次々と設立されるようになってきました。これらのシステムには数多くのプレプリントが主として TeX 原稿の形で蓄積されており、internet を経由して、自由にプレプリントを取り出すことができます。また、自分の論文の TeX 原稿をそのシステムに投稿することもできます。これらのシステムを活用することにより、現在までの「プレプリントを送る・送られる」というコミュニケーションの形態に比して、はるかに早く情報を発信・受信することができます。本号では、新たに2ヶ所のシステムを紹介します。

Several Complex Variables preprint network.....[三波篤郎氏 (北海道大学) の紹介]

多変数複素解析のプレプリントを集めたシステム。高次元複素力学系関係を含んでいる。.....[巻末資料5参照]

Foliation ftp site

Foliation のプレプリントを集めた ftp site。S. Hurder により個人的に運用されているシステムで、Foliations Tokyo 1994 において紹介された。.....[巻末資料6参照]

日本国内においても、力学系関係のプレプリントを集めたサービスを始めるべき時点にきているのではないかと思います。これまでに、京都大学や数理研に打診をお願いしてみましたが、いずれも計算機資産などの問題で、否定的な回答でした。どなたか、internet に接続された計算機資産をある程度自由に使うことができる方で、このようなサービスを始めて頂ける方はいらっしゃいませんか？

## SECOND CONFERENCE ON FUNCTION SPACES

May 25-28, 1994

Southern Illinois University at Edwardsville

## TENTATIVE LIST OF PARTICIPANTS as of October 1, 1993

J. Arzey University of Haifa, Haifa 31905, Israel  
 H. Arizmendi Universidad Nacional, Mexico City 04510, D. F., Mexico  
 R. Aaron Kent State University, Kent, OH 44242, USA  
 S. Axler Michigan State University, East Lansing, MI 48824, USA  
 A. Bernard Institut Fourier, Grenoble 1, France  
 E. Briem University of Iceland, Reykjavik, Iceland  
 B. Burckel Kansas State University, Manhattan, KS 66506, USA  
 M. Carmel University of California, Santa Barbara, CA 93106, USA  
 Cho-Ho Chu University of London, London SE14 6NW, UK  
 P. Curtis University of California, Los Angeles, CA 90024, USA  
 J. Diestel Kent State University, Kent, OH 44242, USA  
 G. Emmanuele Citta' Universitaria, 95125 - Catania, Italy  
 P. Enflo Kent State University, Kent, OH 44242, USA  
 J. Feinstein University of Nottingham, Nottingham NG72RD, UK  
 F. Forelli University of Wisconsin-Madison, Madison, WI 53706, USA  
 T. W. Gamelin University of California, Los Angeles, CA 90024, USA  
 P. Gorkin Bucknell University, Lewisburg, PA 17837, USA  
 S. Grabner Pomona College, Claremont, CA 91711, USA  
 P. Greim The Citadel, Charleston, SC 29409, USA  
 O. Hatori Tokyo Medical College, Shinjuku-ku, Tokyo 160, Japan  
 K. Jarosz Southern Illinois University, Edwardsville, IL 62026, USA  
 K. B. Laursen Kobenhavn Universitets, 2100 Kobenhavn, Denmark  
 D. Lubinsky University of Witwatersrand, 2050 Johannesburg, RSA  
 J. Mandosa Universidad Complutense, Madrid 28040, Spain  
 M. Neumann Mississippi State University, MS 39762, USA  
 D. Pathak M.S. University of Baroda, Baroda 390-001, India  
 A. Pełczyński Polish Academy of Sciences, 00-950 Warsaw, Poland  
 N. V. Rao University of Toledo, Toledo, OH 43606, USA  
 T.S.R.K. Rao Indian Statistical Institute, Bangalore 560 059, India  
 R. Rochberg Washington University, St. Louis, MO 63130, USA  
 W. Rudin University of Wisconsin-Madison, Madison, WI 53706, USA  
 S. J. Sidney University of Connecticut, Storrs, CT 06268, USA  
 T. Saccone Brown University, Providence, RI 02912, USA  
 L. Tzafriri Hebrew University of Jerusalem, 91904 Jerusalem, Israel  
 K. Yale University of Montana, Missoula, MT 59812, USA  
 J. Weizner Brown University, Providence, RI 02912, USA  
 W. Werner Universitat-GH-Paderborn, D-33095 Paderborn, Germany  
 Fei Yuan Wu National Chiao Tung University, Hsinchu, Taiwan  
 W. Zelazko Polish Academy of Sciences, 00-950 Warsaw, Poland

## PROGRAM:

The conference will feature several invited talks on function algebras, spaces of analytic functions,  $L^p$ -spaces, spaces of vector valued functions, and other topics. There will also be parallel sessions of contributed talks.

## LOCATION:

Southern Illinois University at Edwardsville is located 20 miles North-East from St. Louis on a 2600 wooded acres outside the town of Edwardsville.

## SCHEDULE:

May 24 registration  
 May 25-28 talks  
 May 29 a bus will be arranged for participants joining the Conference

"On Interaction Between Functional Analysis, Harmonic Analysis, and Probability" at the University of Missouri-Columbia.

## PROCEEDINGS:

We plan to publish proceedings of the conference in a Marcel Dekker

series Lecture Notes in Pure and Applied Mathematics. Proceeding of the first Conference on Function Spaces at SIUS were published in 1992 in the same series, # 136.

## DEADLINES and FEES:

Abstracts for contributed talks should be 7.5" wide by at most 5" inches high. Please E-mail a TEX file or mail a photo ready copy, as soon as possible, but not later than April 1, 1994. The registration fee will be \$40 through March of 1994, and \$50 thereafter.

## ACCOMMODATIONS:

Arrangements have been made for participants who wish to stay on campus. The rates are as follows:

a private bedroom in a two bedroom student's apartment is \$19 per night  
 and double occupancy (four people per an apartment) is \$12.50 per person.

Blankets and sheets are provided, no kitchenware.

The number of apartments on campus is limited,

please reserve as early as possible.

More luxurious accommodation is available in several local hotels, however none of the hotels is located in a walking distance from the campus.

## Send all correspondence to:

K. Jarosz  
 Department of Mathematics & Statistics  
 Southern Illinois University at  
 Edwardsville  
 Edwardsville, Illinois 62026, USA  
 E-mail: CJ01@SIUEMUS.BITNET  
 fax: (618) 692 3174;  
 tel.: (618) 692 2354

The Department of Mathematics at  
the  
University of Missouri-Columbia

announces  
a  
Conference  
On the Interaction Between  
Functional Analysis,  
Harmonic Analysis, and  
Probability.

May 30- June 3, 1994

Supported by The University of Missouri  
and the National Science Foundation  
The following people have agreed to speak.

Earl Berkson (University of Illinois)  
Jean Bourgain (I H E S, France)  
Don Burkholder (University of Chicago)  
Robert Fefferman (University of Chicago)  
William B. Johnson (Texas A&M)  
Alexander Pełczyński (Polish Academy of Sciences)  
Peter Jones (Yale University)  
Gilles Pisier (University of Paris/Texas A&M)  
Richard Rochberg (Washington University)  
Michel Talagrand (University of Paris/Ohio-State  
University)  
Lior Tzafriri (Hebrew University of Jerusalem)  
Guido Weiss (Washington University)

For Additional Information send an e-mail message to:  
conf@esaab.cs.missouri.edu

Foliations Tokyo 1993

First Week  
Chuo University, Surugadai Memorial Hall

	15	16	17	18	19
10:00-10:45	registration / opening meeting	Hurder	Hurder	Hurder	Kanai
11:00-11:30	Tsuchiya	Ei Kacimi	Zhu Zhoua	Gómez-Mont	Schweitzer
12:00-12:45	Vogt	Tsuboi	Conlon	Lehmann	Ghys
14:15-15:00	Mitsumatsu	T.B.A.	→ Soledad	Brasselet	<del>Watazaki</del>
15:15-15:45	Fenley	Nakayama		Kawazumi	Egashira
16:15-16:30	Kabila ←	→ Mizutani		Moriyama	Macias
16:40-16:55	Currás-Bosch	Kubarski		Sanmartin	<del>Mishimoto</del>
17:05-17:20	Urzua Luz	Fukui		<del>Frankel</del>	<del>Frankel</del>
17:30-17:45		Kellum			Frankel

November 15 10:30- : Opening Meeting

November 16 18:00- : Reception

(The president of Chuo University invites all the participants and accompanying persons.)

16:45-17:15  
S. Matsuzaki

Second Week

TITech, International House

	22	23	24	25	26
10:00-10:45	Molino	Molino	Molino	H. Sato	Tondeur
11:00-11:30	Herrera	Gallego	dos Santos	Meigniez	Hashiguchi
12:00-12:45	Hector	Hector	Hector	Zeghib	<del>Mishimoto</del>
14:15-15:00	Natsume	Dynnikov		Levitt	<del>Zottner</del>
15:15-15:45	Moriyoshi	Special S.		Alcalde	
16:15-17:00	Kamber	Sergiescu		Morita	

November 23 15:15- : Special Session

November 25 18:00- : Farewell party

13:15-14:00 Zottner  
14:15-15:00 Masca

## Mini Courses

- G. Hector: *Conjecture de Baum-Connes pour certains feuilletages*
- S. Hurd: *The coarse geometry of foliations*
- P. Molino: *Orbit-like foliations in Riemannian and symplectic geometry*
- Lectures
- F. Alcalde-Cuesta: *Préquantification de certaines variétés de Poisson*
- S. Aranson, V. Mamaev, E. Zhuzhoma: *Asymptotical properties of foliations and And Weyl problem*
- J.-P. Brasselet: ~~Geometry of singularities of foliations~~  
Residues and Nash construction for singular holomorphic foliations
- J. Cantwell and L. Conlon: *Foliation cones*
- C. Currás-Bosch: *On symplectic linearisation*
- N. dos Santos: *Differential conjugation of actions of  $\mathbb{R}^2$*
- I. Dynnikov: *Asymptotical properties of the foliation connected with the semi-classical electron motion in the lattice under the action of the magnetic force*
- S. Egashira: *Expansion Growth of Various Foliations*
- A. El Kacimi and E. Gallego Gomez: *Applications harmoniques feuilletées*
- A. El Kacimi and M. Nicolau: *Differentiably stable foliations*
- S. Fenley: *Topological and homotopic properties: Anosov flows in 3-manifolds*
- S. Frankel: *Harmonic measure and Euler characteristics for foliations*
- K. Fukui: *Stability of Hausdorff Foliations of 5-Manifolds by Klein bottles*
- E. Ghys: *Umbral foliations and transversely holomorphic flows*
- X. Gómez-Mont: *On the holonomy pseudogroups of holomorphic foliations in  $CP^2$*
- N. Hashiguchi: *On a perturbation of the PL-representation of a surface group*
- G. Hector and S. Matsumoto: *Bouts de feuilles et classification des feuilletages de Lie*
- B. Herrera Gomez: *Transverse structure of Lie foliations*

- T. Inaba, S. Matsumoto, N. Tsuchiya: *Codimension one transversely affine foliations*
- A. Kabila: *Equisingularity problems for holomorphic foliations*
- F. Kamber: *Index theory for Riemannian foliations*
- M. Kanai: *Vanishing of tangential cohomology of foliations and rigidity of discrete group actions*
- N. Kawazumi: *An application of the second Riemann continuation theorem to cohomology of the Lie algebra of vector fields of the complex line*
- M. Kellum: *Uniformly  $k$ -Lipschitz foliations and their measurable orbit equivalence*
- J. Kubarski: *Tangential Chern-Weil homomorphism*
- D. Lehmann: ~~Comparison of differential systems and residual Euler classes of higher order~~ Residues for singular characteristics field are invariant by an  $SO(n)$  vector field.
- G. Levitt: *Foliations and  $\mathbb{R}$ -trees*
- E. Macias-Virgós: *Homotopy groups in Lie foliations*
- E. Macias and C. Sanmartin: *The manifold of bundle-like metrics*
- X. Masa: *Minimal model of nilpotent Lie foliations*
- G. Meigniez: *Trying to characterize holonomy groups of Lie foliations*
- Y. Mitsumatsu: *Linking pairing, Anosov flows, and contact-symplectic structures*
- T. Mizutani: *Characteristic classes of foliations and the group cocycles of Diff*
- S. Morita: *The Structure of the Mapping Class Group and Characteristic Classes of Surface Bundles*
- Y. Moriyama: *Polycyclic groups of diffeomorphisms on the half-line*
- H. Moriyoshi: *On cyclic cocycles associated with the Godbillon-Vey Classes*
- H. Nakayama: *On non-Hausdorff sets of plane homeomorphisms*
- T. Natsume: *Another look into the foliation index theorem*
- T. Nishimori: *Some remarks in a qualitative theory of similarity pseudogroups*
- H. Sato: *Foliations of spheres by great circles*
- P. Schweitzer: *Foliations with constant mean curvature (Tentative title)*

- V. Sergiescu: *Homological aspects of groups of one-dimensional piecewise homeomorphisms*
- V. Slodov: *Title to be announced*
- Ph. Tondeur: *Minimal gauge orbits*
- T. Tsuboi: *On the stability of hyperbolic compact leaves*
- N. Tsuchiya: See [T. Inaba, S. Matsumoto, N. Tsuchiya]
- R. Urazu Luz: *Action of  $Z^2$  on the affine group of  $T^4$ .*
- E. Vogt: *Negative Euler characteristic as an obstruction to foliate an open 3-manifold by circles*
- P. Walczak: *Transverse dynamics of flows tangent to foliations*
- A. Zeghib: *On continuous geodesic foliations of hyperbolic manifolds*
- A. Zorich: *Asymptotic flag of an orientable measured foliation*

- Sharp, R. (London)
- Schubert, V. (Göttingen)
- Rugh, H.H. (Lyon)  
Correlation functions for hyperbolic analytic maps
- Ruelle, David (Bures-sur-Yvette)  
Dynamical zeta functions and transfer operators
- Pollcott, Mark (Coventry)  
Divisor of the Selberg Zeta function for Kleinian groups
- Perry, Peter A. (Lexington)  
The division of the Ruelle zeta function
- Patterson, Samuel James (Göttingen)  
Morgado, Sanchez (Mexico)
- Mayer, Dieter H. (Clausthal-Zellerfeld)  
Thermodynamic formalism and Selberg theory
- Levin, G. (Jerusalem)  
Distribution of eigenvalues of the transfer operator
- Keller, Gerhard (Erlangen)  
Zeta functions for Collet-Eckmann maps
- Juhl, Andreas (Berlin)  
Zeta functions and index theory
- Hill, R. (Göttingen)  
An explanation of the rationality of the Reidemeister zeta function
- Haydn, Nicolai (Los Angeles)  
Generalised Gibbs' state for flows
- Fried, D. (Boston)  
Asymptotic expansions for smooth expanding maps
- Fořštyn, Alexander (Göttingen)  
Dynamical zeta functions, Nielsen theory and Reidemeister torsion
- Efrat, Isaac (College Park)  
Transfer operators and zeta functions
- Bogomolny, E.B. (Orsay)  
Kneading matrices for zeta functions with weights of bounded variation
- Baladi, Viviane (Lyon)

Vorläufige Teilnehmerliste:

05.12. (Anreise) - 11.12.1993 (Abreise)  
Leitung: Dieter Mayer, Clausthal-Zellerfeld  
Samuel J. Patterson, Göttingen  
David Ruelle, Bures-sur-Yvette

Dynamical Zeta Functions  
On the quantum Baker's map  
or:  
Spectral zeta functions  
Veros, A. (Gif-sur-Yvette)  
Haddington, S. (Göttingen)  
Large deviation asymptotics for Anosov flows

Bitte beachten Sie, daß das Institut am Anreisetag erst ab 16 Uhr geöffnet ist.  
On Sunday, the Institute does not open before 4 p.m.

Freiburg, den 1. Oktober 1993

ELECTRONIC SEVERAL COMPLEX VARIABLES LIBRARY  
(formerly Hoosier SCV Library)

The electronic SCV library aims to increase the awareness of preprints that are available in either electronic or conventional form. Everyone in the SCV community is invited to send in an abstract or preprint.

Send abstracts, preprints, comments, and queries to [boas@math.tamu.edu](mailto:boas@math.tamu.edu).

ACCESSING THE LIBRARY.

1. Gopher is the easiest way to retrieve items from the electronic several complex variables library. Execute the command  

```
gopher gopher.tamu.edu
```

and select in succession the menu items  
Browse Information by Subject/  
Mathematics/  
Electronic Preprints from Several Complex Variables Library/

If your system does not have a gopher client, you can use the American Mathematical Society gopher as follows.  
Execute the command

```
telnet e-math.ams.org
and login with name e-math and password
e-math. Then select in succession
E-MATH GOPHER
Mathematical Preprints/
Electronic Preprints from Several Complex Variables Library/
```

Unfortunately the AMS gopher is slow. For better performance, ask your system manager to install the useful free gopher software.

2. Anonymous ftp is another way to access items in the electronic several complex variables library.  
Execute the command

```
ftp iu-math.math.indiana.edu
and login with username "anonymous" and
password <your e-mail address>.
Change directories with the command
cd pub/scv.
```

You can then list the available items via

and retrieve items with the command  

```
get <filename>.
```

3. If you cannot use the above methods, or if you prefer not to use an interactive method, you can have files sent to you by e-mail from an ftpmail server. Send e-mail to [ftpmail@decwrl.dec.com](mailto:ftpmail@decwrl.dec.com) with a message body of the following form:

```
connect iu-math.math.indiana.edu
chdir pub/scv
get <filename>
get <another filename>
quit
```

The ftpmail server will retrieve the files at its leisure and e-mail them to you.

Warning: The Internet mutates rapidly. The information in 1, 2, 3 above was valid as of 11/93, but it could change at any time.

SOME SPECIAL FILES

You may wish to retrieve some of the following special files:

```
README      an informational file
Index       a listing of all papers
Abstracts   a file of all abstracts
New         a listing of recent additions
Citations   bibliographic data for items now published
```

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Harold P. Boas                    E-mail: [boas@math.tamu.edu](mailto:boas@math.tamu.edu)  
Department of Mathematics      Fax: 409 845-6028  
Texas A&M University            Phone: 409 845-7269 (office)  
College Station, TX 77843-3368   409 845-3261 (dept. office)

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A guide to access and use of the  
foliations ftp site

ftp (= file transfer protocol) is a very easy way to exchange files with other computers over the Internet. The computer *babe.math.uic.edu* at the University of Illinois at Chicago has an ftp site with a directory "pub/foliations" for the support and exchange of papers in the field of foliations. The following is a short introduction to the use of ftp and a guide to use of the foliations ftp site. For more detailed information on ftp, type "man ftp" in a terminal window.

Access to the foliations ftp site

- 1) Enter the commands in a terminal window:  

```
ftp babe.math.uic.edu (CR)
```

or outside the USA it may be necessary to use the Internet number  

```
ftp 128.248.180.100
```

where (CR) stands for carriage return.

Then when the computer responds with a login, follow the login procedures for anonymous ftp:

```
login: anonymous (CR)
password: <<user name>> (CR)
```

where <<user name>> is the name of the user account from which you are running ftp. For example, if the user *fwood@boss.math.uic.edu* is ftp'ing to the babe, then he would have <<user name>> = *fwood*

- 2) Change the directory to *pub/foliations* by typing the command  

```
cd pub/foliations (CR)
```
- 3) To find out what authors have preprints in the directory, type  

```
ls (= "all" s) (CR)
```
- 4) To change to the subdirectory of a particular author, type  

```
cd <<author name>> (CR)
```
- 5) To list the contents of an author directory, type  

```
ls (CR)
```

or, to get a more detailed listing of the files with their sizes, type  

```
ls -al (CR)
```
- 6) When you are done, type  

```
quit (CR)
```

To get a paper from the foliations ftp site

- 1) Log into the ftp site following the steps 1 to 4 above.
- 2) (optional - for unix systems) Change your local directory to where you want the incoming files to be placed by typing  

```
lcd <<your local directory name>> (CR)
```

For example, if the user *fwood@boss.math.uic.edu* has a directory "foliations/library" to place the papers in, then he would command  

```
lcd foliations/library
```

- 3) a) To get an individual file, type  

```
get <<filename>> (CR)
```

b) To get several files most easily, type  

```
mget * (CR)
```

You will then be asked about each file in the list from *ls -al*, whether you want to get it. Type  

```
y (CR) - if you want the file
n (CR) - if you do not want the file
```

- 4) When it is done getting the files from an author's directory, type  

```
quit (CR)
```

if you want to quit, or type  

```
cd .. (CR) - that is, cd followed by "two periods"
```

to get back up to the directory *foliations*, then move down to another author directory.



Posting a paper to the *collations* ftp site:

#### HOW TO POST A FILE

- 1) Log into the ftp site following step 1 above.
- 3) Move to the directory *submissions* by typing  
`cd pub/collations/submissions` (CR)
- 4) Change to your local directory where the paper files are located by typing  
`lcd <<your local directory>>` (CR)

(This is primarily for *unix* systems where the files are stored in local subdirectories.)

- 5) Type  
`put <<file name of your paper>>` (CR)

Repeat step (5) for each file you want to submit.

The system operator will then post the paper tex file, and any accompanying files, into the appropriate author directory

Posting a paper to the *collations* ftp site:

#### RULES

- 1) Always include at the top of the file some basic identifying information:
  - a) your name, address and email address
  - b) the name of the file submitted
  - c) what flavor of tex is being used: *tex*, *latex*, *amstex* or *lamstex*
- 2) All files must be in *ascii* - no special word processor formats should be used.  
*Do not post ".dvi" files!*
- 3) Post in your directory any special macro that you are using. If the document has an "`\input <<name>>.sty`" statement at the beginning, this file has to be available to others for them to "tex" your file.
- 4) If you use *BIbTeX* to make your references, don't forget to either insert your ".bib" file into the tex document, or to post the ".bib" file you are using.
- 5) If you have postscript files included in your document, please post them only if they are of reasonable length. Their size is included in the total space allowed each person.

*All of this is strictly voluntary and being organized by Steve Hurder.* (hurder@boss.math.uic.edu.) If it gets "too crazy," the site will be suspended. So limit the amount posted to at most 1 megabyte, *maximum*. This is about 10 average papers of 30 to 40 pages with no pictures.

Finally, there is always the possibility that the files you submit may be deleted, by accident or otherwise.

Do not make this directory your only copy of a file!!!

We ( the system operator, steve hurder, or random chance) reserve the right to remove a directory from the system if the need arises.

