

Mathematics library news 11 April 2014

In 2009, LSU Libraries surveyed faculty journal rankings. There were 22 responses from Mathematics and Experimental Statistics Departments. Among the 296 journals listed in the category, Mathematics, in Journal Citation Reports, LSU faculty rankings included 190 of these. Among the 247 journals listed in the JCR category, Mathematics, Applied, LSU faculty rankings included 79 of these. Among the 117 journals in the JCR category, Statistics & Probability, LSU faculty rankings included 36 of these. (JCR categories overlap.)

Respondents' rankings were put into Mathematics Department departmental aggregate scores by my colleague Steve Bensman. In the Mathematics JCR category, 94 journals were checked for whether LSU Libraries subscribes to these. In the Applied Mathematics category, 22 were checked for subscriptions. In the Statistics & Probability category, 33 were checked. (Ranking scores determined how many were checked.)

Table 1 shows a summary by type of publisher/distributor. Cells show the number of subscriptions among the journals checked for each type of publisher or distributor. Individual journals are listed in Tables 2-4.

Faculty rankings of journals in the JCR category Mathematics had a weak correlation with impact factor ($r=0.25$) or 5-year impact factor ($r=0.32$), and a better correlation ($r=0.47$) with total number of citations received by all issues of each journal in 2012, the most recent year for which this data is available. The impact factor of a journal is the average number of citations received in a citing year for articles published in that journal for the two years (or five years, respectively) prior to the citing year.

Table 1: Summary

JCR Category	Elsevier	Springer	Wiley	Taylor & Francis	AMS	SI-AM	Project Euclid	Other Societies	Univ. Presses	Other Publishers (incl. G&T, Scielo)
Mathematics	13/13	25/26	3/3	0/3	7/7	0	5/7	7/10 (2 print, not online)	13/15	5/10
Applied Mathematics	7/7	3/5	1/1	0/1	1/1	5/5	0	1/1	0	0/1
Statistics & Probability	3/3	4/4	9/9	2/6	0	0	2/4	1/3	1/1	1/3

If you want to request a particular title, or other library services, contact Aaron Lercher at alrcher1@lsu.edu.

Table 2: Mathematics (JCR category, as ranked by LSU faculty)

Abbreviated Journal Title	ISSN	{2012} Total Cites	Impact Factor	LSU faculty rank	Publisher	Current issue available electronically
J AM MATH SOC	0894-0347	2420	3.567	1	AMS	Yes
B AM MATH SOC	0273-0979	3411	2.556	2	AMS	Yes
ANN MATH	0003-486X	8680	3.027	3	Princeton UP	Yes
INVENT MATH	0020-9910	6819	2.259	4	Springer	Yes
P AM MATH SOC	0002-9939	9219	0.609	5	AMS	Yes
J COMB THEORY A	0097-3165	1733	0.772	7	Elsevier	Yes
J FUNCT ANAL	0022-1236	6297	1.252	7	Elsevier	Yes
LECT NOTES MATH	0075-8434	9161	0.614	7	Springer	Yes
ADV MATH	0001-8708	5352	1.373	9	Elsevier	Yes
T AM MATH SOC	0002-9947	10615	1.019	10.5	AMS	Yes
CR MATH	1631-073X	1430	0.477	10.5	Elsevier	Yes
J REINE ANGEW MATH	0075-4102	3853	1.083	12.5	Ebsco	Yes
P LOND MATH SOC	0024-6115	3109	1.151	12.5	Oxford UP	Yes
DUKE MATH J	0012-7094	4426	1.701	15	Euclid	Yes
MATH ANN	0025-5831	5579	1.378	15	Springer	Yes
AM J MATH	0002-9327	3743	1.35	15	JHUP	Yes
COMMUN PUR APPL MATH	0010-3640	6536	3.337	17	Wiley	Yes
AM MATH MON	0002-9890	2244	0.292	18.5	JSTOR	Yes
J GRAPH THEOR	0364-9024	1413	0.626	18.5	Wiley	Yes
J ALGEBRA	0021-8693	6518	0.583	20.5	Elsevier	Yes
J LOND MATH SOC	0024-6107	3053	0.804	20.5	Oxford UP	Yes
MEM AM MATH SOC	0065-9266	1872	1.821	23.5	AMS	Yes
J MATH ANAL APPL	0022-247X	16628	1.05	23.5	Elsevier	Yes

Table 2, continued

ACTA MATH-DJURSHOLM	0001-5962	2911	2.714	23.5	Springer	Yes
B LOND MATH SOC	0024-6093	1480	0.627	23.5	Oxford UP	Yes
PAC J MATH	0030-8730	3297	0.465	27	AMS	Yes
COMMENT MATH HELV	0010-2571	1492	1	27	Springer	Yes
MATH Z	0025-5874	4130	0.879	27	Springer	Yes
GEOM TOPOL	1465-3060	815	0.974	29.5	G&T	Yes
ISR J MATH	0021-2172	2357	0.646	31	Springer	Yes
INDIANA U MATH J	0022-2518	2500	0.416	32	Indiana UP	Yes
CAN J MATH	0008-414X	1935	0.556	33.5	Canadian Math Soc	No, print only
MATH PROC CAMBRIDGE	0305-0041	1678	0.683	33.5	Cambridge UP	Yes
ANN SCI ECOLE NORM S	0012-9593	1653	0.955	37	Elsevier	Yes
J MATH PURE APPL	0021-7824	1907	1.174	37	Elsevier	Yes
COMMUN PART DIFF EQ	0360-5302	2434	1.025	37	Taylor & Francis	No
COMB PROBAB COMPUT	0963-5483	587	0.608	37	Cambridge UP	Yes
ANN I FOURIER	0373-0956	1595	0.527	41.5	Inst Fourier	Yes
ASTERISQUE	0303-1179	1260	1.017	41.5	Math Soc France	No
COMBINATORICA	0209-9683	1211	0.56	41.5	Springer	Yes
GEOMETRIAE DEDICATA	0046-5755	1041	0.465	41.5	Springer	Yes
J PURE APPL ALGEBRA	0022-4049	2403	0.534	46.5	Elsevier	Yes
J DIFFER GEOM	0022-040X	3033	1.183	46.5	Euclid	Yes
MICH MATH J	0026-2285	964	0.6	46.5	Euclid	Yes
CAN MATH BULL	0008-4395	634	0.217	46.5	Canadian Math Soc	No, print only
B SOC MATH FR	0037-9484	956	0.447	46.5	Math Soc France	No
COMMUN PUR APPL ANAL	1534-0392	490	0.589	51	Amer Inst Math Sci	No
J ALGEBR COMB	0925-9899	506	0.634	51	Springer	Yes
COMPOS MATH	0010-437X	1846	1.024	51	Cambridge UP	Yes
J ALGEBRAIC GEOM	1056-3911	544	1.171	56	AMS	Yes

Table 2, continued

DISCRETE MATH	0012-365X	5128	0.578	56	Elsevier	Yes
MATH RES LETT	1073-2780	1108	0.6	56	Math Pub	No
SB MATH+	1064-5616	2124	0.595	56	IOP	Yes, but catalog does not indicate
J EUR MATH SOC	1435-9855	642	1.88	56	Springer	Yes
P EDINBURGH MATH SOC	0013-0915	647	0.561	56	Cambridge UP	Yes
ANN SCUOLA NORM-SCI	0391-173X	983	0.683	56	Sc Norm Sup Pisa	No
J LIE THEORY	0949-5932	227	0.455	61	Heldermann	Yes
SEMIGROUP FORUM	0037-1912	694	0.455	61	Springer	Yes
EUR J COMBIN	0195-6698	1376	0.658	64.5	Elsevier	Yes
Illinois J of Mathematics	0019-2082			64.5	Euclid	Yes
PUBL MATH-PARIS	0073-8301	783	1.867	64.5	Springer	Yes
ALGEBR GEOM TOPOLOG	1472-2739	595	0.682	69	G&T	Yes
J ANAL MATH	0021-7670	1068	0.836	69	Springer	Yes
NAGOYA MATH J	0027-7630	702	0.708	69	Euclid	No
MATH NACHR	0025-584X	1585	0.576	69	Wiley	Yes
GRAPH COMBINATOR	0911-0119	444	0.351	72.5	Springer	Yes
FINITE FIELDS TH APP	1071-5797	357	0.679	77.5	Elsevier	Yes
Kyoto J of Math	023-608X			77.5	Euclid	Yes
GEOM FUNCT ANAL	1016-443X	1452	1.574	77.5	Springer	Yes
CALC VAR PARTIAL DIF	0944-2669	1180	1.236	77.5	Springer	Yes
DOKL MATH	1064-5624	590	0.376	77.5	Springer	Yes
ARK MAT	0004-2080	558	0.674	77.5	Springer	Yes
TRANSFORM GROUPS	1083-4362	372	0.595	77.5	Springer	Yes
COMMUN ALGEBRA	0092-7872	2735	0.356	77.5	Taylor & Francis	No
J KNOT THEOR RAMIF	0218-2165	592	0.403	85.5	World Sci	No
J MATH LOG	0219-0613	65	0.364	85.5	World Sci	No

Table 2, continued

RUSS MATH SURV+	0036-0279	2140	0.781	85.5	IOP	Yes, but catalog does not indicate
PROBAB THEORY REL	0178-8051	2055	1.394	85.5	Springer	Yes
INT MATH RES NOTICES	1073-7928	2093	1.116	85.5	Oxford UP	No
J of Combinatorics	1097-1440			92	Elect J Combinatorics	Yes
P ROY SOC EDINB A	0308-2105	1266	0.637	92	Royal Soc	Yes, but catalog does not indicate
ANN MAT PUR APPL	0373-3114	1187	0.68	92	Springer	Yes
GLASGOW MATH J	0017-0895	556	0.435	92	Cambridge UP	Yes
ELECTRON RES ANNOUNC	1935-9179	99	0.852	98	AMS	discontinued
COMMUN ANAL GEOM	1019-8385	517	0.508	98	Intl Press	No
FUND MATH	0016-2736	1284	0.529	98	Polish Acad Sci	No
POTENTIAL ANAL	0926-2601	515	0.959	98	Springer	Yes
ANN GLOB ANAL GEOM	0232-704X	434	0.887	98	Springer	Yes
Q J MATH	0033-5606	1104	0.557	98	Oxford UP	Yes
ANN PURE APPL LOGIC	0168-0072	905	0.504	105	Elsevier	Yes
J MATH SOC JPN	0025-5645	994	0.505	105	Euclid	No
MANUSCRIPTA MATH	0025-2611	1283	0.392	105	Springer	Yes
ALGEBR COLLOQ	1005-3867	322	0.308	105	Springer	No
LINEAR MULTI-LINEAR A	0308-1087	768	0.677	105	Taylor & Francis	No
MATH SCAND	0025-5521	834	0.521	105	Aarhus UP	Yes

Table 3: Applied Mathematics (JCR category, as ranked by LSU faculty)

Abbreviated Journal Title	ISSN	{2012} Total Cites	Impact Factor	LSU faculty rank	Publisher	Current issue available electronically
P AM MATH SOC	0002-9939	9219	0.609	5	AMS	Yes
COMMUN PUR APPL MATH	0010-3640	6536	3.337	17	Wiley	Yes
J MATH ANAL APPL	0022-247X	16628	1.05	23.5	Elsevier	Yes
COMMUN PART DIFF EQ	0360-5302	2434	1.025	37	Taylor & Francis	No
J MATH PURE APPL	0021-7824	1907	1.174	37	Elsevier	Yes
J PURE APPL ALGEBRA	0022-4049	2403	0.534	46.5	Elsevier	Yes
COMMUN PUR APPL ANAL	1534-0392	490	0.589	51	Amer Inst Math Sci	No
J EUR MATH SOC	1435-9855	642	1.88	56	Springer	No
SIAM J DISCRETE MATH	0895-4801	1238	0.662	64.5	SIAM	Yes
SIAM J APPL MATH	0036-1399	5407	1.577	69	SIAM	Yes
SIAM J CONTROL OPTIM	0363-0129	4590	1.379	72.5	SIAM	Yes
CALC VAR PARTIAL DIF	0944-2669	1180	1.236	77.5	Springer	Yes
FINITE FIELDS TH APP	1071-5797	357	0.679	77.5	Elsevier	Yes
DISCRETE APPL MATH	0166-218X	3251	0.718	85.5	Elsevier	Yes
ANN COMB	0218-0006	267	0.333	85.5	Springer	Yes
SIAM J MATH ANAL	0036-1410	3873	1.573	92	SIAM	Yes
P ROY SOC EDINB A	0308-2105	1266	0.637	92	Royal Soc	Yes, but catalog does not list
ANN MAT PUR APPL	0373-3114	1187	0.68	92	Springer	Yes
ADV APPL MATH	0196-8858	917	0.838	98	Elsevier	Yes
SIAM J NUMER ANAL	0036-1429	7636	1.484	105	SIAM	Yes
ANN PURE APPL LOGIC	0168-0072	905	0.504	105	Elsevier	Yes
ALGEBR COLLOQ	1005-3867	322	0.308	105	Springer	No

Table 4: Statistics & Probability (JCR category, as ranked by LSU faculty)

Abbreviated Journal Title	ISSN	{2012} Total Cites	Impact Factor	LSU faculty rank	Publisher	Current issue available electronically
TECHNOMETRICS	0040-1706	4864	1.424	1	Taylor & Francis	Yes
J QUAL TECHNOL	0022-4065	1900	1.52	6	Amer Soc Qual Con	No
AM STAT	0003-1305	3244	0.976	6	Amer Stat Assoc	No
BIOMETRIKA	0006-3444	14376	1.65	6	Oxford UP	Yes
J AM STAT ASSOC	0162-1459	22728	1.834	6	Taylor & Francis	Yes
J R STAT SOC B	1369-7412	13388	4.81	6	Wiley	Yes
J R STAT SOC A STAT	0964-1998	1951	1.361	6	Wiley	Yes
BIOMETRICS	0006-341X	15497	1.412	6	Wiley	Yes
J R STAT SOC C-APPL	0035-9254	2515	1.253	6	Wiley	Yes
J BIOPHARM STAT	1054-3406	833	0.728	24.5	Dekker	No
COMPUT STAT DATA AN	0167-9473	4718	1.304	24.5	Elsevier	Yes
J MULTIVARIATE ANAL	0047-259X	2673	1.063	24.5	Elsevier	Yes
J STAT PLAN INFER	0378-3758	3205	0.713	24.5	Elsevier	Yes
ANN STAT	0090-5364	12736	2.528	24.5	Euclid	Yes
STAT SCI	0883-4237	3236	2.239	24.5	Euclid	No
ANN PROBAB	0091-1798	3666	1.38	24.5	Euclid	Yes
BRAZ J PROBAB STAT	0103-0752	71	0.442	24.5	Euclid	No
J STAT COMPUT SIM	0094-9655	930	0.629	24.5	Gordon & Breach	No
STAT SINICA	1017-0405	2043	1.44	24.5	Inst Stat Sci Taiwan	No
REV COLOMB ESTAD	0120-1751	20	0.109	24.5	Scielo	Yes
LIFETIME DATA ANAL	1380-7870	481	0.852	24.5	Springer	Yes
ANN I STAT MATH	0020-3157	1209	0.736	24.5	Springer	Yes
COMPUTATION STAT	0943-4062	345	0.482	24.5	Springer	Yes
METRIKA	0026-1335	549	0.724	24.5	Springer	Yes
J COMPUT GRAPH STAT	1061-8600	2246	1.269	24.5	Taylor & Francis	No
COMMUN STAT-SIMUL C	0361-0918	838	0.295	24.5	Taylor & Francis	No
COMMUN STAT-THEOR M	0361-0926	2043	0.298	24.5	Taylor & Francis	No
SCAND ACTUAR J	0346-1238	292	0.941	24.5	Taylor & Francis	No
BIOMETRICAL J	0323-3847	1285	1.152	24.5	Wiley	Yes
SCAND J STAT	0303-6898	2171	1.169	24.5	Wiley	Yes
CAN J STAT	0319-5724	866	0.591	24.5	Wiley	Yes
AUST NZ J STAT	1369-1473	397	0.529	24.5	Wiley	Yes
APPL STOCH MODEL BUS	1524-1904	355	0.544	24.5	Wiley	Yes