



# Обратные и некорректные задачи в экспериментальной физике

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[www.itam.nsc.ru/lab17/](http://www.itam.nsc.ru/lab17/)



- Обратные и некорректные задачи. Примеры и методы решения. Интегральные уравнения первого рода. Дифференцирование зашумленных данных. Регуляризованные сглаживающие сплайны. Сглаживание и гладкие аппроксимации. Обращение плохо обусловленных матриц. Суммирование Фурье-рядов для экспериментальных сигналов. Томография плазмы как пример некорректной задачи.





-- Поиск научной информации в электронных библиотеках:  
ИТПМ, ScienceDirect, Google Scholar, Google Books,  
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[Томограмма](#)

## Группа Вычислительной томографии, Институт теоретической и прикладной механики, Новосибирск, Россия

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[\(2009-2005\)](#) [\(2004\)](#) [\(2003\)](#) [\(2002\)](#) [\(2001\)](#) [\(2000\)](#) [\(1999\)](#) [\(1998\)](#) [\(1997\)](#) [\(1996\)](#)

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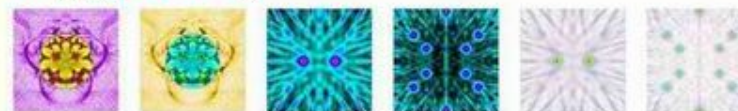
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факс: +7-383-3307-268  
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Реферативные базы данных по томографической литературе и смежным вопросам в научных социальных сетях:

[CiteULike](#) [более 1000 ссылок],

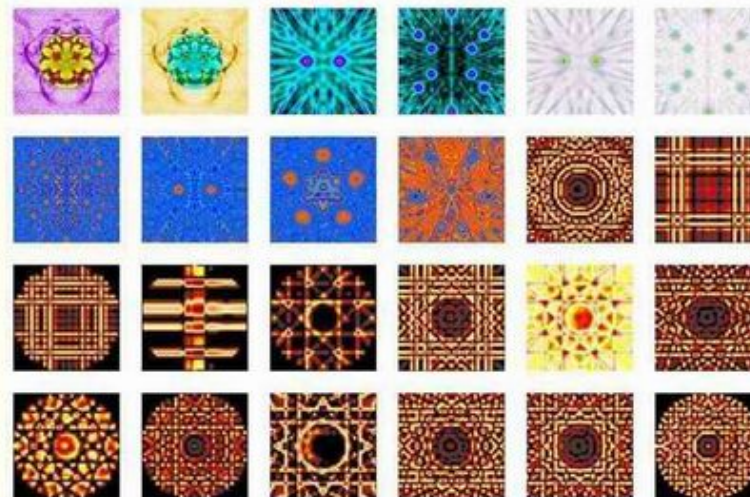
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(tomography algorithms, inverse problems, wavelets, signal and image processing, neural networks, etc. )

Bibliographic databases on tomography (and other problems) in the scientific social networks:

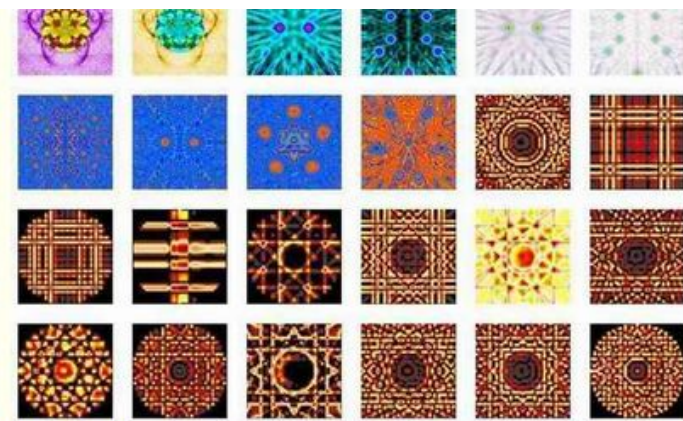
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- GoogleScholar: <http://scholar.google.com>
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- Scopus: <http://scopus.com>
- CiteULike : <http://www.citeulike.org/home>
- ИТПИМ СО РАН: <http://www.itam.nsc.ru/users/libr>
- Реферативная БД по томографии и обратным задачам, ИТПИМ СО РАН:  
[http://www.itam.nsc.ru/lab17/dBase/show\\_bib.php](http://www.itam.nsc.ru/lab17/dBase/show_bib.php)

### **Порталы издательств – цифровые библиотеки**

- ACM (Association for Computing Machinery): <http://portal.acm.org>
- AMS (American Mathematical Society): [http:// www.ams.org/journals](http://www.ams.org/journals)
- APS (American Physical Society): [http:// publish.aps.org](http://publish.aps.org)
- OSA (Optical Society of America): [http:// www.opticsinfobase.org](http://www.opticsinfobase.org)
- SPIE (The International Society for Optical Engineering ):  
[http:// www.spiedigitallibrary.org](http://www.spiedigitallibrary.org)
- Institute of Physics (UK): [http:// www.iop.org/EJ](http://www.iop.org/EJ)
- ScienceDirect (Elsiever): <http://www.sciencedirect.com>
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**НОВОСТИ**

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ДИССЕРТАЦИОННЫЙ СОВЕТ Д 003.036.02 ОБЪЯВЛЯЕТ О ЗАЩИТАХ ДИССЕРТАЦИЙ

27 февраля 2009 г., 10:00 - Защита диссертации Юдиным Петром Владимировичем на тему: "Экспериментальное моделирование динамики вспомогательного газа и механизмов удаления расплава при лазерной резке металлов" на соискание ученой степени кандидата физико-математических.

27 февраля 2009 г., 14:00 - Защита диссертации Яковлевым Владимиром Ивановичем на тему: "Энергообмен в сверхзвуковых газоплазменных течениях" на соискание ученой степени доктора физико-математических наук.

ЗАЩИТА СОСТОИТСЯ В КОНФЕРЕНЦ-ЗАЛЕ ИТПМ  
С ДИССЕРТАЦИЯМИ МОЖНО ОЗНАКОМИТЬСЯ В БИБЛИОТЕКЕ ИНСТИТУТА

[Подробнее](#)

Дата публикации: 27.01.2009

**Открыт доступ к ресурсам Оптического общества Америки (OSA).**

В ИТПМ открыт доступ к полным текстам всех ресурсов (журналов и конференций) международного общества OSA (Оптического общества Америки). Список журналов:

J. Opt. Soc. Am. A, J. Opt. Soc. Am. B,  
Applied Optics, Optics Letters,

Поиск:

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Новости

Архив новостей (2006-2008)

11.02.2008 Открыт доступ к полнотекстовым электронным журналам Royal Society Publishing  
Список журналов: Royal Society Publishing

01.02.2008 Открыт доступ к полнотекстовым электронным журналам Taylor & Francis  
Список журналов: InformaWorld.com

19.10.2007  
Появился новый физический журнал с открытым доступом к полным текстам:  
PMC Physics A

=>Далее...

Публикации ИТПМ и электронный каталог

(более 13 200 записей, полный каталог книжных поступлений начиная с 1985 года,  
и частичный - с 1925 года)

правила подачи списков литературы для их ввода в электронный каталог ИТПМ]

Списки новых поступлений за 2009 год

		● 27.04-08.05.2009
		● 13.04-24.04.2009
		● 30.03-10.04.2009
		● 16.03-27.03.2009
		● 02.03-13.03.2009
		● 16.02-27.02.2009
		● 02.02-13.02.2009
		● 19.01-30.01.2009

Списки поступлений за 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 годы

Каталог журналов ИТПМ

Отечественные журналы: А В Г Д Е Ж З И К Л М Н О П Р С Т У Ф Х Ц Ч Ш Э Ю Я

Иностранные журналы: А В С D E F G H I J K L M N O P Q R S T U V W Y Z



правила использования электронных ресурсов: категорически **запрещается** сплошное скачивание отдельных выпусков журналов; применение для этого программных средств; пересылка статей по электронной почте в адрес сотрудников других институтов.

**Журналы с полнотекстовым доступом для сотрудников ИТПМ**  
 Перед вызовом линка для **ИМПАКТ-ФАКТОРА ISI** надо установить сессию с JCR и выбрать год: 2005 - 2007; на странице с импакт-фактором нажмите кнопку 'impact factor trend' для его выдачи за последние 5 лет.

Обозначения: IF-05, IF-06, IF-07 - импакт-факторы ISI за 2005 - 2007 годы, [IF5] - средний импакт-фактор за 5 лет: 2002-2006 (или 2003-2007) гг. (в скобках - предыдущее среднее).

Журнал	Издательство	IF-07	IF-06	IF-05	[IF5]
01. Combustion, Explosion, and Shock Waves (перевод журнала ФТВ)	Springer	0.530	0.358	0.274	0.337 (0.337)
02. Cosmic Research (перевод журнала "Космические исследования")	Springer	0.368	0.283	0.467	0.351 (0.341)
03. Doklady Physics (перевод Докл. РАН, раздел Физика)	Springer	0.257	0.255	0.283	0.274 (0.276)
04. Experiments in Fluids (1983 - )	Springer	1.259	1.112	1.062	1.008 (0.941)
05. Fluid Dynamics (перевод журнала "Механика жидкости и газа")	Springer	--	--	--	--
06. High Temperature (перевод журнала "Термофизика высоких температур")	Springer	0.332	0.198	0.302	0.332 (0.336)
07. Inverse Problems	Inst. of Phys. Publ.	1.854	1.319	1.541	1.464 (1.324)

Принимаются заказы по МБА:

С 16.07.2008 Большая часть журналов издательства Taylor & Francis стали доступны в ИТПМ (см. список)

Журнал	Издательство	IF-07	IF-06	IF-05	[IF5]
01. AIAA Journal	AIAA	0.988	0.970	0.792	0.893
02. Applied Optics	OSA	1.701	1.717	1.637	1.640
03. Computing in Science and Engineering	American Institute of Physics and the IEEE Computer Society	0.704	0.862	0.698	0.803
04. IEEE Computer Graphics and Applications	IEEE	1.398	1.429	1.152	1.457
05. IEEE Transactions on Visualization and Computer Graphics	IEEE	1.600	1.794	1.457	1.688
06. IEEE Transactions on Knowledge & Data Engineering	IEEE	1.896	2.063	1.758	1.468
07. IEEE Transactions on Pattern Analysis & Machine Intelligence	IEEE	3.579	4.306	3.810	3.843
08. IEEE Transactions on Medical Imaging	IEEE	3.275	3.757	3.939	3.730 (3.657)
09. IEEE Transactions on ...					2.321

- С 10 декабря вновь открыты журналы и конференции международного компьютерного общества ACM (вычислительная математика, компьютерные науки). Вход в цифровую библиотеку для сотрудников ИТПМ [ЗДЕСЬ](#).
- С 10 октября 2008 года открыт доступ к издательству SPIE - SOC. PHOTOPTICAL INSTRUMENTATION ENGINEERS - доступны не только журналы, но и труды конференций, Proceedings of SPIE, начиная с тома 1200.
- Доступные в ИТПМ СО РАН журналы Американского института физики (на 2008 год)
- Доступные журналы издательства Taylor & Francis
- Общероссийский математический портал: MathNet.ru
- JCR - Journal Citation Report - Импакт-фактор (индекс цитирования) журналов Института научной информации (ISI, Филадельфия, США), есть

➤ **Дополнительный** список журналов по физике и математике (для расчетов ПРНД), **некоторые из них открыты для ИТПМ!**



- H-index - как считать персональный импакт-фактор ученого.
- ГОСТ Р 7.0.5-2008 "Библиографическая ссылка" (2.22 Mb), вводится с 1-го января 2009 года. Исходник полного текста на сайте: **НАЦИОНАЛЬНЫЕ СТАНДАРТЫ**.

Подробнее о доступных журналах ... и вычислениях ПРНД

Отделение ГИИТБ СО РАН в Академгородке

ГИИТБ СО РАН (город)

Новосибирская областная научная библиотека

Российская государственная библиотека

ГИИТБ России

еще поисковые системы...

- **Библиографическая база данных ИТПМ СО РАН** (более 7000 записей) по обратным задачам в физических исследованиях, по обработке сигналов и изображений (вэйвлеты, томография и др.)
- **The Collection of Computer Science Bibliographies**
- **DOAJ - Directory of Open Access Journals**

### Поисковые системы

- **American Institute of Aeronautics and Astronautics (AIAA) Electronic library**, search over four decades of technical information (без абстрактов). **Ingenta**, показывает содержание журнала AIAA Journal вместе с абстрактами за 1997-2004 годы (тома 35-42).
- **Web of Science** - поиск по ключевым словам, а также цитированной заданной фамилии автора (с 1975 года).
- **Google Scholar**: Поиск по научным публикациям: с указанием числа цитированной и выдачей списка цитирующих работ.
- **Google Book Search**: Поиск по книжным публикациям. Показывается страница книги с заданной при поиске фамилией или ключевым словом, доступны страница до и страница после. Кроме того, обычно доступны рекламные материалы по книге: обложка, предисловие, оглавление, поиск на издательство и т.п. Иногда доступна вся книга (нужна бесплатная регистрация на Google).
- **SCIRUS Search**: поиск по научной информации. Scirus searches

### Электронные библиотеки



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БИБЛИОТЕКА

- **Научная электронная библиотека (РФФИ)**, доступ после бесплатной регистрации.
- **ACM Digital Library** - все журналы и конференции общества ACM (Computer science, вычислительные науки).
- **arXiv** (свободный доступ, препринты по физике и математике).
- **IEEE Xplore (electrical engineering, computer science, and electronics)**.
- **ScienceDirect** is one of the largest online collections of published scientific research in the world. Produced by Elsevier it contains over 8.5 million articles from over 2000 journals.
- **JSTOR** (short for Journal Storage) is a United States-based online system for archiving academic journals, founded in 1995. It provides full-text searches of digitized back issues of several hundred well-known journals, dating back to 1665 in the case of the Philosophical Transactions. (Wikipedia)

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## Редактирование электронного каталога библиотеки ИТЦМ (книжный фонд и список публикаций сотрудников ИТЦМ)

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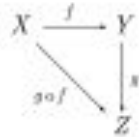
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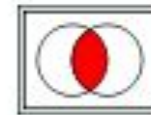
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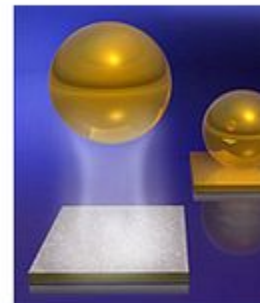
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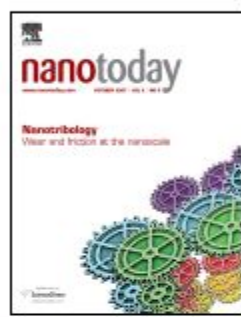
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Michael Pitkethly<sup>a</sup>, 

<sup>a</sup>CENAMPS, UK

Available online 29 September 2007.

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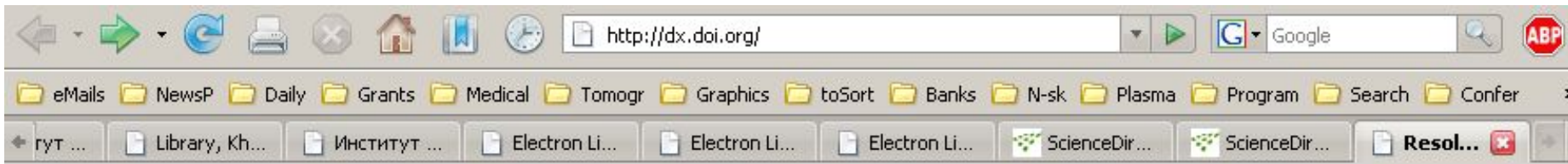
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**16 июля 1961 года** решением Ученого Совета НГУ был создан Физический факультет НГУ.

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(2007.09.20) В раздел [Учебные пособия по высшей математике и математической физике](#) добавлена новая методичка: [Семинары по высшей алгебре и аналитической геометрии.](#)(439 kb, pdf) Александрова Н.И. Новосибирск: НГУ, 2007. - 88 с.

(2007.09.01) Проект [Видеолекции Физического факультета НГУ](#) приостановлен. Продолжение проекта в следующем семестре. Записанные ранее в 2005-2007 годах лекции доступны в полном объеме в соответствующем разделе библиотеки.

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[Small autonomous passively Q-switched Nd3+: YAG laser with a Cr4+: YAG Q switch emitting pulse trains](#)  
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Times Cited: 0
2. Fomin VM, Kudryavtsev AN, **Maslov AA**, et al.  
[Active control of disturbances in a hypersonic shock layer](#)  
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3. Fomin VM, Shiblyuk AN, Aniskin VM, et al.  
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4. **Maslov AA**, Shiblyuk AN, Bountin DA, et al.  
[Mach 6 boundary-layer stability experiments on sharp and blunted cones](#)  
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5. **Maslov AA**, Mironov SG, Aniskin VM  
[Hypersonic shear layer stability experiments](#)  
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6. Orlov VK, Sergeev VM, Semenov AG, et al.  
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METAL SCIENCE AND HEAT TREATMENT 46 (11-12): 479-483 NOV-DEC 2004  
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7. Fomin VM, Fedorov AV, Kozlov VF, et al.  
[Stabilization of a hypersonic boundary layer by ultrasound-absorbing coatings with a regular microstructure](#)  
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8. Chokani N, Bountin DA, Shiblyuk AN, et al.

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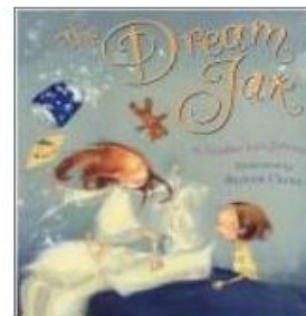
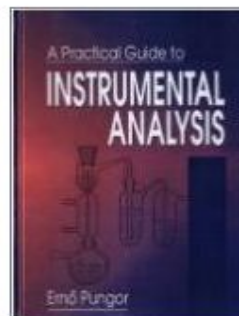
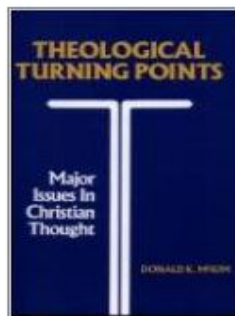
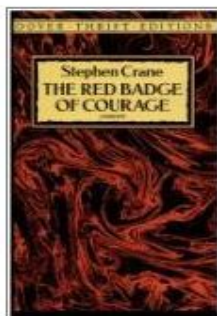
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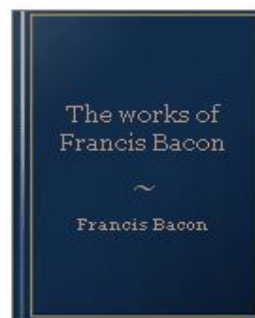
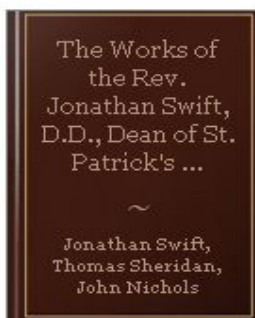
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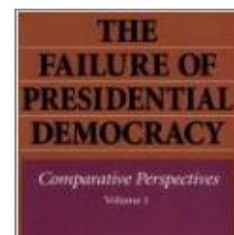
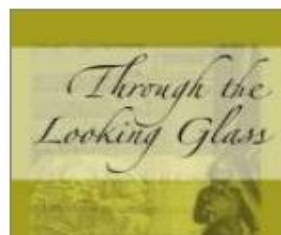
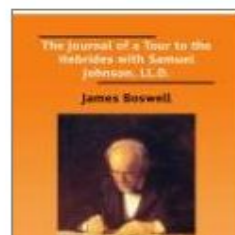
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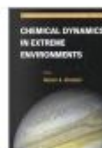
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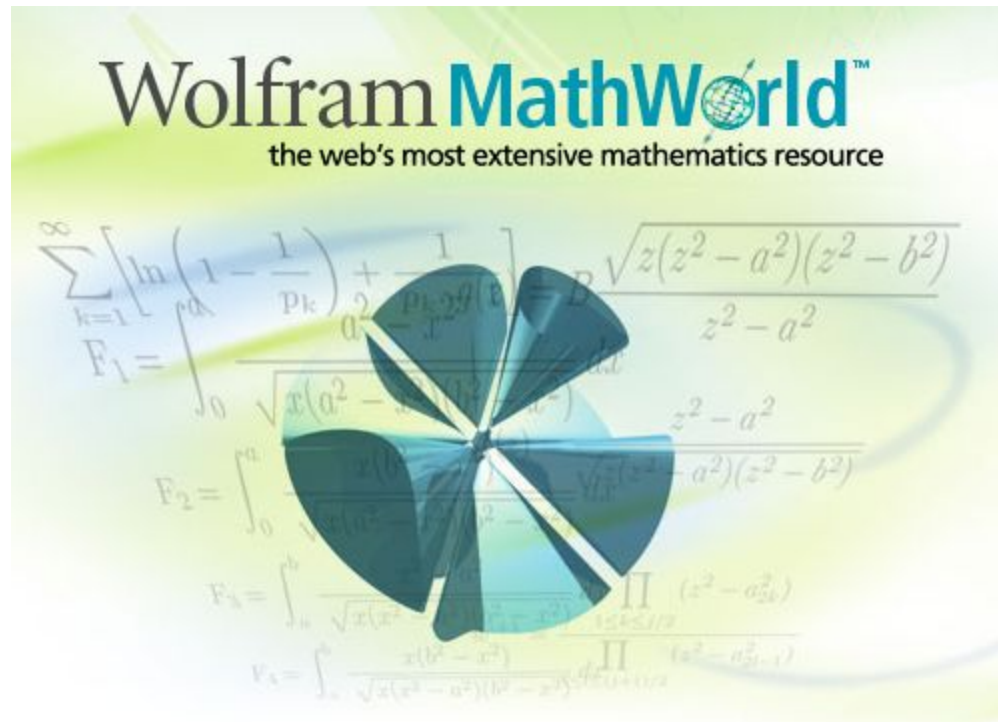
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## Radon Transform



The Radon transform is an [integral transform](#) whose inverse is used to reconstruct images from medical CT scans. A technique for using Radon transforms to reconstruct a map of a planet's polar regions using a spacecraft in a polar orbit has also been devised (Roulston and Muhleman 1997).

The Radon transform can be defined by

$$R(p, \tau)[f(x, y)] = \int_{-\infty}^{\infty} f(x, \tau + px) dx \tag{1}$$

$$= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x, y) \delta[y - (\tau + px)] dy dx \tag{2}$$

$$\equiv U(p, \tau), \tag{3}$$

where  $p$  is the [slope](#) of a line and  $\tau$  is its intercept. The inverse Radon transform is

$$f(x, y) = \frac{1}{2\pi} \int_{-\infty}^{\infty} \frac{d}{dp} H[U(p, y - px)] dp, \tag{4}$$

where  $H$  is a [Hilbert transform](#). The transform can also be defined by

$$R'(r, \alpha)[f(x, y)] = \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} f(x, y) \delta(r - x \cos \alpha - y \sin \alpha) dx dy, \tag{5}$$

where  $r$  is the [perpendicular](#) distance from a line to the origin and  $\alpha$  is the [angle](#) formed by the distance [vector](#).

Using the identity

$$\mathcal{F}_{\omega\alpha}[R[f(\omega, \alpha)]](x, y) = \mathcal{F}_{uv}^2[f(u, v)](x, y), \tag{6}$$

where  $\mathcal{F}$  is the [Fourier transform](#), gives the inversion formula

$$f(x, y) = c \int_0^{\pi} \int_{-\infty}^{\infty} \mathcal{F}_{\omega\alpha}[R[f(\omega, \alpha)]] |\omega| e^{j\omega(x \cos \alpha + y \sin \alpha)} d\omega d\alpha. \tag{7}$$

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**Abel's Lemma** (*Wolfram MathWorld*)

The pure equation  $x^p=C$  of prime degree  $p$  is irreducible over a field when  $C$  is a number of the field but not the  $p$ th power of an element of the field. [Jeffreys and Jeffreys ...](#)

**Abel Prize** (*Wolfram MathWorld*)

The Abel prize is a new mathematics prize of the Norwegian Academy of Science and Letters, dedicated to the memory of Niels Henrik Abel (1802-1829) on the occasion of the ...

**Abel Polynomial** (*Wolfram MathWorld*)

A polynomial  $A_n(x;a)$  given by the associated Sheffer sequence with  $f(t)=te^{at}$ , (1) given by  $A_n(x;a)=x(x-an)^{(n-1)}$ . (2) The generating function is ...

**Abel Transform** (*Wolfram MathWorld*)

The following integral transform relationship, known as the Abel transform, exists between two functions  $f(x)$  and  $g(t)$  for ...

**Abel's Integral** (*Wolfram MathWorld*)

Abel's integral is the definite ...



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[E. T. F. Santos](#), [A. Bassrei](#)

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**Keywords:**  $\Theta$ -curve, Diffraction tomography, Inverse problems, L-curve, Regularization, Regularization parameter

2 [The information content of the scattered intensity in diffraction tomography](#)

[Greg Gbur](#), [Emil Wolf](#)

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3 [Generalized Fourier diffraction theorem for tomography](#)

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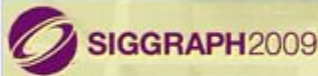


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by [Thierry Frey](#) — 17 March 2009 02:15 AM

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