

## INSPHYS

- Subject Coverage**
- Atomic and molecular physics
  - Condensed matter: structure, mechanical and thermal properties, electronic structure, electrical, magnetic and optical properties
  - Fluids, plasmas, electric discharges
  - Geophysics, astronomy, astrophysics
  - Materials science, physical chemistry, biophysics
  - Mathematical physics
  - Nuclear physics
  - Optics, acoustics, fluid dynamics
  - Physics of elementary particles and fields
  - Physical measurement technique

**File Type** Bibliographic

**Features**

Thesaurus	Controlled Term (/CT)			
<a href="#">Alerts (SDIs)</a>	Not available			
CAS Registry Number <sup>®</sup> Identifiers	<input type="checkbox"/>	Page Images	<input type="checkbox"/>	STN <sup>®</sup> AnaVist <sup>™</sup> <input type="checkbox"/>
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Learning Database	<input type="checkbox"/>	Structures	<input type="checkbox"/>	

**Record Content**

- Bibliographic information, indexing, and abstracts.

**File Size**

- 613.260 records

**Coverage** 1979-1994

**Updates** Closed file

**Language** English

**Database Producer**

The Institution of Engineering and Technology (IET)  
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The database is compiled and produced by IET in association with FIZ Karlsruhe

- Sources**
- Journals
  - Conference contributions
  - Books
  - Reports
  - Other non-conventional literature
- 

- User Aids**
- Online Helps (HELP DIRECTORY lists all help messages available)
  - STNGUIDE
- 

- Clusters**
- ALLBIB
  - AUTHORS
  - CHEMENG
  - CHEMISTRY
  - CORPSOURCE
  - ELECTRICAL
  - ENGINEERING
  - FUELS
  - MATERIALS
  - METALS
  - PHYSICS
- [STN Database Clusters](#) information (PDF)
- 

**Related Databases**

INSPEC, please note:  
**INSPHYS is a supplementary file to the INSPEC database that contains only those records of the former PHYS file from 1979 to 1994, that did not appear in INSPEC. It is necessary to use INSPHYS in combination with INSPEC by multifile or crossfile searching to obtain complete results.**

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**Pricing**

Enter HELP COST at an arrow prompt.

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## Search and Display Field Codes

Fields that allow left truncation are indicated by an asterisk (\*).

### General Search Fields

Search Field Name	Search Code	Search Examples	Display Codes
Basic Index* (contains single words from title (TI), abstract (AB), and controlled term (CT) fields)	None or /BI	S CLUSTER? S CRYSTALLINATION S FINITE RANGE/BI S OPTIC?(S)DISILANE S REACTION?/BI,CC	TI, AB, CT
Author (editor, patent inventor) Classification Code (Code, main code and text)	/AU /CC	S SATO, K/AU S 2/CC S 2110/CC S *2570/CC S PARTICLE/CC	AU CC
Controlled Term (main headings) <b>(1)</b>	/CT	S MEV RANGE 10-100/CT S *ENERGY LEVELS/CT	CT
Corporate Source	/CS	S (TOKYO(W)UNIV)/CS S NUCLEAR ACCELERATOR?/CS	CS
Country of Publication (code and text)	/CY	S NL/CY S FRANCE/CY	CY
Document Type (code and text)	/DT	S B/DT	DT
Element Terms (contains chem. elements and formulas, compounds (CP), materials (SY: >= 2 metals), dopings, ions neg. (IN), ions pos. (IP), isotopes (IS), nuclear reactions (target T, reaction R, final nucleus F))	/ET	S ALCUMG/ET S TI-MO-N/ET S AL*CU*MG/ET <b>(2)</b> S MG CP/ET S TI SY 3/ET S SI:H/ET S BE IP 2/ET S U IS/ET S 6LI D/ET	ET
Journal Title	/JT	S NUCL. PHYS., A/JT	SO
Language (ISO code and text)	/LA	S FR/LA	LA
Meeting Date <b>(3)</b>	/MD	S 19810824/MD S 19810800-810831/MD	SO
Meeting Year <b>(3)</b>	/MY	S 1980-1982/MY	SO
Number of Report (number and prefix)	/NR	S BMFT-FB-W--83!032/NR S BMFT-FB-W/NR	NR
Publication Date <b>(3)</b>	/PD	S 19820607/PD S 19820600-19820630/PD	SO
Publication Year <b>(3)</b>	/PY	S 19820607/PD S 19820600-19820630/PD	SO
Source (contains CODEN, journal title and other higher level titles, ISBN, ISSN, publisher, meeting information)	/SO	S SOLID STATE/SO S (ALLOYING(S)LASER)/SO S SPRINGER/SO S NUPAB/SO S 0-306-41373-6/SO S 0375-9474/SO	SO
Title	/TI	S (ALLOY?(S)ALUMIN?)/TI	TI
Treatment Code (code and text)	/TC	S APPARATUS/TC	TC
Update Date <b>(3)</b>	/UP	S UP>=19921101	not displayed

**(1)** The PHYS Thesaurus is available online in this field - see page 3 for details.

**(2)** Elements cited in Hill System order with an asterisk (\*) between element terms. Russian steels are converted to chem. elements, e.g. KHGNM into CRMNNIMO and CR\*MN\*MO\*NI.

**(3)** Numeric search field that may be searched using numeric operators or ranges.

## The PHYS Thesaurus

FIZ Karlsruhe's PHYS Thesaurus is available online in field /CT. All relationship codes can be used with both the EXPAND and SEARCH commands.

Code	Content	Examples
ALL	All Associated Terms (BT, SELF, USE, USE+, UF, UF+, SEE, SF, NT, RT, KT)	E ETHERS+ALL/CT
AUTO (1)	Automatic Relationship (USE, UF, USE+, UF+)	S HAMILTON OPERATORS+AUTO/CT
BT	Broader Terms (also BT1, BT2 etc. possible)	E NUCLEONS+BT/CT
HIE	Hierarchy (all Broader and Narrower Terms)	E FISSION NEUTRONS+HIE/CT
KT	Keyword Terms (Multi-word Phrases containing the specified Keyword Term)	E FISSION+KT/CT
NT	Narrower Terms (also NT1, NT2 etc. possible)	S ZIRCONIUM COMPOUNDS+NT/CT
PFT	All Preferred and Forbidden Terms (USE, UF, USE+, UF+, SEE, SF)	E ELECTRON RADIUS+PFT/CT
RT	Related Terms (See Also)	E ELECTROSTATIC PRECIPITATORS+RT/CT
STD	Standard (all Broader, Narrower, and Related Terms)	E MICROWAVE TUBES+STD/CT

(1) Automatic relationship is SET OFF. In case of SET REL ON the result of EXPAND or SEARCH without any relationship code is the same as described for AUTO.

## DISPLAY and PRINT Formats

Any combination of formats may be used to display or print answers. Multiple codes must be separated by spaces or commas, e.g., D L1 1-5 TI AU. The fields are displayed or printed in the order requested.

Hit term highlighting is not available in this file.

Format	Content	Examples
AB	Abstract	D TI AB
AN	Accession Number	D 1-5 AN
AU	Author (patent inventor)	D AU TI
CC	Classification Code	D CC
CS	Corporate Source (format includes AU)	D CS
CT	Controlled Term	D CT
CY	Country of Publication	D CY
DT	Document Type	D DT
ET	Element Term	D ET
LA	Language	D LA TI
NR	Number of Report	D NR
SO	Source (format includes NR)	D SO
TC	Treatment Code	D TC
TI	Title	D TI
ALL BIB IND TRIAL	BIB, AB, CC, CT, ET AN, TI, AU, CS, NR, SO, CY, DT, TC, LA (BIB is the default) AN, CC, CT, ET TI, CC, CT, ET	D ALL D 8 BIB D IND D TRI

## SELECT, ANALYZE, and SORT Fields

The SELECT command is used to create E-numbers containing terms taken from the specified field in an answer set.

The ANALYZE command is used to create an L-number containing terms taken from the specified field in an answer set.

The SORT command is used to rearrange the search results in either alphabetic or numeric order of the specified field(s).

Field Name	Field Code	ANALYZE/ SELECT (1)	SORT
Abstract	AB	Y	N
Accession Number	AN	Y	N
Author	AU	Y	Y
Classification Code	CC	Y	Y
CODEN	CODEN	N	Y
Controlled Term	CT	Y	N
Corporate Source	CS	Y	Y
Country of Publication	CY	Y	Y
Document Type	DT	Y	Y
Element Term	ET	Y	N
International Standard Book Number	ISBN	N	Y
International Standard Serial Number	ISSN	N	Y
Journal Title	JT	N	Y
Language	LA	Y	Y
Number of Report	NR	Y	Y
Publication Date	PD	N	Y
Publication Year	PY	N	N
Source	SO	Y	N
Title	TI	Y (default)	Y
Treatment Code	TC	Y	Y

(1) SELECT HIT or ANALYZE HIT are not valid.

## Sample Records

### DISPLAY ALL OF REPORT

AN 1993(12):71234 INSPHYS

TI The Chamaeleon dark clouds and T-associations.

Cha I; Cha II; Cha III.

AU Schwartz, R.D. (Dept. Phys., University Missouri, St. Louis, MO (USA))

NR ESO-SR--11

Low mass star formation in southern molecular clouds.

Reipurth, B. (European Southern Obs., Santiago (Chile)) (ed.)

European Southern Observatory, Garching (Germany)

Nov 1991 p. 93-117 of 207 p.

CY GERMANY, FEDERAL REPUBLIC OF

DT Report Article

TC Experimental

LA English

AB The purpose of this review is to summarize the current observational states of Cha I and Cha II, especially regarding the populations of YSOs obtained from both optical and infrared studies. To this end, candidate members for each association are tabulated along with updated finder charts. The results of spectroscopic and photometric studies (optical and infrared) are briefly summarized with a focus upon particularly interesting objects within each association. (AAA)

**INSPHYS**

CC \*9840; 9710  
 CT \*DARK CLOUDS; INFRARED RADIATION; PHOTOMETRY; REVIEWS; \*YOUNG STARS; \*STAR ASSOCIATIONS; VISIBLE RADIATION; SPECTROSCOPY  
 ET T; I; Os\*S\*Y; Os sy 3; sy 3; S sy 3; Y sy 3; YSOs; Y cp; cp; S cp; Os cp

**DISPLAY ALL OF JOURNAL**

AN 1993(16):91477 INSPHYS  
 TI Optical analysis of InAs heterostructures grown by migration-enhanced epitaxy.  
 AU Inoue, M.; Yano, M.; Furuse, H.; Nasu, N.; Iwai, Y. (New Material Research Center, Osaka Inst. of Tech. (Japan))  
 SO Semicond. Sci. Technol. (Jan 1993) v. 8(1S) p. 121-124  
 International Conference on Narrow Gap Semiconductors (NGS), Southampton (UK), 19-23 Jul 1992  
 ISSN 0268-1242; CODEN SSTEET  
 CY UNITED KINGDOM  
 DT Journal; Conference  
 TC Experimental  
 LA English  
 AB We have investigated the interface of InAs/GaSb and InAs/AlSb grown by migration-enhanced epitaxy by photoluminescence and Raman spectroscopy. The significant effects of interface bonds, InSb or GaAs (AlAs), on the luminescence as well as phonon spectra are discussed. The confined phonon modes in both systems, InAs/GaSb and InAs/AlSb, are also compared to study the characteristic properties of InAs heterostructures. (orig.)  
 CC \*7865; 6865; 7320; 6835  
 CT \*ALUMINIUM ANTIMONIDES; ALUMINIUM ARSENIDES; EPITAXY; \*GALLIUM ARSENIDES; HETEROJUNCTIONS; \*INDIUM ARSENIDES; \*INTERFACES; PHONON SPECTRA; PHOTOLUMINESCENCE; RAMAN EFFECT; RAMAN SPECTRA; SUPERLATTICES; HETEROSTRUCTURES; QUANTUM WELL STRUCTURES; MICROSTRUCTURE; BINDING  
 ET As\*In; As sy 2; sy 2; In sy 2; InAs; In cp; cp; As cp; Ga\*Sb; Ga sy 2; Sb sy 2; GaSb; Ga cp; Sb cp; Al\*Sb; Al sy 2; AlSb; Al cp; In\*Sb; InSb; As\*Ga; GaAs; Al\*As; AlAs

**DISPLAY ALL OF CONFERENCE**

AN 1994(25):130132 INSPHYS  
 TI Vacuum effects in a spatially homogeneous and isotropic cosmological background.  
 AU Villalba, V.M. (Centro Fis., Inst. Venezolano Investigaciones Cient., Caracas (Venezuela)); Percoco, U. (Centro Fis., Inst. Venezolano Investigaciones Cient., Caracas (Venezuela))  
 SO The Sixth Marcel Grossmann Meeting on recent developments in theoretical and experimental general relativity, gravitation and relativistic field theories. Parts A, B. Proceedings.  
 Sato, H.; Nakamura, T. (Dept. Phys. Yukawa Inst., Kyoto University, Kyoto (Japan))  
 Singapore (Singapore): World Scientific 1992 p. 612-614 of 1744 p.  
 Conference: 6. Marcel Grossmann Meeting on General Relativity, Kyoto (Japan), 23-29 Jun 1991  
 ISBN 981-02-0950-9  
 CY SINGAPORE  
 DT Book Article; Conference  
 TC Theoretical  
 LA English  
 AB The authors obtain, by separation of variables, an exact solution to the Klein Gordon equation in a cosmological, spatially closed, Robertson-Walker space-time with a positive cosmological constant. The model is associated with a universe filled with radiation. The authors analyze the phenomenon of

particle creation for different values of the dimensionless coupling constant. They discuss the relevance of the cosmological constant in this process. (AAA)

CC \*9880; 9870

CT \*COSMOLOGICAL CONSTANT; COSMOLOGICAL MODELS; SPACE-TIME; KLEIN-GORDON EQUATION

ET B

## EXPAND in the PHYS Thesaurus /CT

### => E NEUTRONS+ALL/CT

E1	4848	BT3	FERMIONS/CT
E2	3674	BT4	ELEMENTARY PARTICLES/CT
E3	5223	BT3	HADRONS/CT
E4	2443	BT2	BARYONS/CT
E5	2989	BT1	NUCLEONS/CT
E6	8248	-->	NEUTRONS/CT
E7	230	UF	PHOTONEUTRONS/CT
E8	164	NT1	ANTINEUTRONS/CT
E9	2	NT1	BETA-DELAYED NEUTRONS/CT
E10	95	NT1	COLD NEUTRONS/CT
E11	155	NT2	ULTRACOLD NEUTRONS/CT
E12	51	NT1	COSMIC NEUTRONS/CT
E13	50	NT1	EPITHERMAL NEUTRONS/CT
E14	1207	NT1	FAST NEUTRONS/CT
E15	309	NT1	FISSION NEUTRONS/CT
E16	265	NT2	DELAYED NEUTRONS/CT
E17	177	NT2	PROMPT NEUTRONS/CT
E18	31	NT1	INTERMEDIATE NEUTRONS/CT
E19	4	NT1	PILE NEUTRONS/CT
E20	23	NT1	POLYNEUTRONS/CT
E21	49	NT2	DINEUTRONS/CT
E22	12	NT2	TETRANEUTRONS/CT
E23	15	NT2	TRINEUTRONS/CT
E24	90	NT1	RESONANCE NEUTRONS/CT
E25	72	NT1	SLOW NEUTRONS/CT
E26	73	NT1	SOLAR NEUTRONS/CT
E27	717	NT1	THERMAL NEUTRONS/CT
E28	0	RT	HAYWOOD MODEL/CT
E29	1656	RT	NEUTRON BEAMS/CT
E30	201	RT	NEUTRON DENSITY/CT
E31	894	RT	NEUTRON FLUX/CT
E32	15	RT	NEUTRON OSCILLATION/CT
E33	95	RT	NEUTRON SEPARATION ENERGY/CT
E34	1107	RT	NEUTRON SOURCES/CT
E35	1843	RT	NEUTRON SPECTRA/CT
E36	1628	RT	NEUTRON STARS/CT
E37	12	RT	NEUTRON TEMPERATURE/CT
E38	102	RT	NEUTRON TRANSFER/CT
E39	15	RT	NEUTRON-DEUTERON INTERACTIONS/CT
E40	1	RT	ROSENBLUTH-NELKIN MODEL/CT
E41	2	KT	BETA-DELAYED NEUTRONS/CT
E42	95	KT	COLD NEUTRONS/CT
E43	51	KT	COSMIC NEUTRONS/CT
E44	265	KT	DELAYED NEUTRONS/CT
E45	50	KT	EPITHERMAL NEUTRONS/CT
E46	1207	KT	FAST NEUTRONS/CT

**INSPHYS**

E47	309	KT	FISSION NEUTRONS/CT
E48	31	KT	INTERMEDIATE NEUTRONS/CT
E49	4	KT	PILE NEUTRONS/CT
E50	177	KT	PROMPT NEUTRONS/CT
E51	90	KT	RESONANCE NEUTRONS/CT
E52	72	KT	SLOW NEUTRONS/CT
E53	73	KT	SOLAR NEUTRONS/CT
E54	717	KT	THERMAL NEUTRONS/CT
E55	155	KT	ULTRACOLD NEUTRONS/CT
***** END *****			

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