### SCINT 2001: 6th International Conference on Inorganic Scintillators

# **Report of Contributions**

Light output and energy resoluti ...

Contribution ID: 1

Type: not specified

# Light output and energy resolution of Ce3+ doped scintillators

Wednesday, 19 September 2001 11:00 (30 minutes)

Primary author: DORENBOS, PPresenter: DORENBOS, PSession Classification: New Scintillators : NS2

Development of YAlO3: Ce scinti ···

Contribution ID: 2

Type: not specified

#### Development of YAIO3: Ce scintillator: Influence of Zr4+ co-doping

Wednesday, 19 September 2001 11:30 (20 minutes)

Primary author: MARES, J Presenter: MARES, J Session Classification: New Scintillators : NS2

Scintillation properties of LaBr3: ···

Contribution ID: 3

Type: not specified

### Scintillation properties of LaBr3:Ce3+ crystals: Fast, Efficient and High energy resolution scintillators

Wednesday, 19 September 2001 11:50 (20 minutes)

Primary author: VAN LOEF, E Presenter: VAN LOEF, E Session Classification: New Scintillators : NS2

Optical properties of Ce3+ and …

Contribution ID: 4

Type: not specified

## Optical properties of Ce3+ and Gd3+- doped sol gel silicate Glasses

Wednesday, 19 September 2001 12:10 (20 minutes)

Primary author: VEDDA, A Presenter: VEDDA, A Session Classification: New Scintillators : NS2

Application in High Energy Phys ...

Contribution ID: 5

Type: not specified

### Application in High Energy Physics and Nuclear Physics

Thursday, 20 September 2001 08:30 (30 minutes)

Primary author: CARLSON, PPresenter: CARLSON, PSession Classification: Detectors for Physics 2 (DP2)

Development of a compact photon ···

Contribution ID: 6

Type: not specified

## Development of a compact photon detector for ANKE at COSY Jülich

Thursday, 20 September 2001 09:00 (20 minutes)

Primary author: HEJNY, H Presenter: HEJNY, H Session Classification: Detectors for Physics 2 (DP2) SCINT 2001: 6th  $\cdots \ /$  Report of Contributions

Scintillators for photon detection ···

Contribution ID: 7

Type: not specified

#### Scintillators for photon detection at medium energies- a comparative study of BaF2, CeF3 and PbWO4

Thursday, 20 September 2001 09:20 (20 minutes)

Primary author: NOVOTNY, RPresenter: NOVOTNY, RSession Classification: Detectors for Physics 2 (DP2)

Endcap calorimeter of KEDR dete ...

Contribution ID: 8

Type: not specified

## Endcap calorimeter of KEDR detector dased on Csl(Na) crystals

*Thursday, 20 September 2001 09:40 (20 minutes)* 

Primary author: ORESHKIN, SPresenter: ORESHKIN, SSession Classification: Detectors for Physics 2 (DP2)

Bright Ultrafast Scintillation from · · ·

Contribution ID: 9

Type: not specified

#### Bright Ultrafast Scintillation from Wide Band Gap Semiconductors

Thursday, 20 September 2001 11:00 (30 minutes)

Primary author: DERENZO, SPresenter: DERENZO, SSession Classification: New Scintillators 3 (NS3)

Interest of thin scintillating films

Contribution ID: 10

Type: not specified

### Interest of thin scintillating films

Thursday, 20 September 2001 11:30 (20 minutes)

Primary author: DUJARDIN, CPresenter: DUJARDIN, CSession Classification: New Scintillators 3 (NS3)

Crystal growth and luminescence ···

Contribution ID: 11

Type: not specified

#### Crystal growth and luminescence properties of Li2B4O7: Ce, In, Ni, Cu, Ti

Thursday, 20 September 2001 11:50 (20 minutes)

Primary author: ISHII, M Presenter: ISHII, M Session Classification: New Scintillators 3 (NS3)

Application perspective of  $\cdots$ 

Contribution ID: 12

Type: not specified

## Application perspective of cadmium-containing crystals based on tungstates and double tungstates

Thursday, 20 September 2001 12:10 (20 minutes)

Primary author: NAGORNAYA, LPresenter: NAGORNAYA, LSession Classification: New Scintillators 3 (NS3)

Alpha-gamma pulse shape discri ...

Contribution ID: 13

Type: not specified

#### Alpha-gamma pulse shape discrimination in CsI:Tl, CsI: Na and BaF2 scintillators

Thursday, 20 September 2001 15:00 (20 minutes)

Primary author: DINCA, LPresenter: DINCA, LSession Classification: Industrial Applications (IA)

Radon gamma-ray spectrometry …

Contribution ID: 14

Type: not specified

## Radon gamma-ray spectrometry with YAP: Ce scintillator

Thursday, 20 September 2001 15:20 (20 minutes)

Primary author: PLASTINO, WPresenter: PLASTINO, WSession Classification: Industrial Applications (IA)

SCINT 2001: 6th · · · / Report of Contributions

Detection of low activities with t

Contribution ID: 15

Type: not specified

### Detection of low activities with the use of inorganic scintillators: the optimal way of processing the spectrum of scintillation signals

Thursday, 20 September 2001 15:40 (20 minutes)

Primary author: RATNER, MPresenter: RATNER, MSession Classification: Industrial Applications (IA)

New Scintillators : From Study to …

Contribution ID: 16

Type: not specified

### **New Scintillators : From Study to Application**

*Thursday, 20 September 2001 16:00 (1h 30m)* 

Primary author: GEKTIN, APresenter: GEKTIN, ASession Classification: Round Table

SCINT 2001: 6th  $\cdots \,$  / Report of Contributions

Study of optical and luminescent ···

Contribution ID: 17

Type: not specified

#### Study of optical and luminescent properties of some inorganic scintillators in the fundamental absorption region

*Friday, 21 September 2001 08:30 (30 minutes)* 

Primary author: MIKHAILIN, VPresenter: MIKHAILIN, VSession Classification: Scintillation mechanisms 2 (SM2)

Hartree-Fock calculation BaF2: La …

Contribution ID: 18

Type: not specified

### Hartree-Fock calculation BaF2: La systems

*Friday, 21 September 2001 09:00 (20 minutes)* 

Primary author: SOBOLEV, A

Presenter: SOBOLEV, A

Session Classification: Scintillation mechanisms 2 (SM2)

Recombination processes in cryst ...

Contribution ID: 19

Type: not specified

## Recombination processes in crystals of solid solutions of Ba1-xLaxF2+x

Friday, 21 September 2001 09:20 (20 minutes)

Primary author: NEPOMNYASHCHIKH, APresenter: NEPOMNYASHCHIKH, ASession Classification: Scintillation mechanisms 2 (SM2)

Energy transfer in ZnWO4 and C  $\,\cdots\,$ 

Contribution ID: 20

Type: not specified

### Energy transfer in ZnWO4 and CdWO4 scintillators

Friday, 21 September 2001 09:40 (20 minutes)

Primary author: NAGIRNYI, VPresenter: NAGIRNYI, VSession Classification: Scintillation mechanisms 2 (SM2)

HadronTherapy: A modern tool f …

Contribution ID: 21

Type: not specified

### HadronTherapy: A modern tool for medecine

*Monday, 17 September 2001 09:30 (30 minutes)* 

Primary author:GERARD, JEAN- PIERREPresenter:GERARD, JEAN- PIERRESession Classification:Opening Session

New trends in PET scanners

Contribution ID: 22

Type: not specified

### New trends in PET scanners

Monday, 17 September 2001 10:00 (30 minutes)

Primary author: TOWNSEND, DPresenter: TOWNSEND, DSession Classification: Opening Session

The Discovery and Development  $\cdots$ 

Contribution ID: 23

Type: not specified

### The Discovery and Development of LSO

Monday, 17 September 2001 11:00 (30 minutes)

Primary author: MELCHER, CPresenter: MELCHER, CSession Classification: Opening Session

25 years of scintillating crystals in …

Contribution ID: 24

Type: not specified

#### 25 years of scintillating crystals in High Energy Physics

Monday, 17 September 2001 11:30 (30 minutes)

Primary author: LONGO, EPresenter: LONGO, ESession Classification: Opening Session

Welcome from the Chairmen

Contribution ID: 25

Type: not specified

### Welcome from the Chairmen

Monday, 17 September 2001 09:00 (30 minutes)

Primary author: PAUL LECOQ & CHRISTIAN PEDRINIPresenter: PAUL LECOQ & CHRISTIAN PEDRINISession Classification: Opening Session

Femtosecond VUV sources and a  $\cdots$ 

Contribution ID: 26

Type: not specified

### Femtosecond VUV sources and applications

*Friday, 21 September 2001 11:00 (30 minutes)* 

Primary author: SALIN, FPresenter: SALIN, FSession Classification: Advanced Techniques (AT)

Micro-focalized X-ray beam excit ...

Contribution ID: 27

Type: not specified

## Micro-focalized X-ray beam excitation of micro-structured scintillator

Friday, 21 September 2001 11:30 (20 minutes)

Primary author: GARNIER, NPresenter: GARNIER, NSession Classification: Advanced Techniques (AT)

Energy resolution of pure NaI sci $\,\cdots\,$ 

Contribution ID: 28

Type: not specified

### **Energy resolution of pure Nal scintillator**

Friday, 21 September 2001 11:50 (20 minutes)

Primary author: MOSZYNSKI, MPresenter: MOSZYNSKI, MSession Classification: Advanced Techniques (AT)

A dual head PET System wit

Contribution ID: 29

Type: not specified

### A dual head PET System wit

Friday, 21 September 2001 12:10 (20 minutes)

Primary author: STREUN, MPresenter: STREUN, MSession Classification: Advanced Techniques (AT)

SCINT 2001: 6th  $\cdots \ /$  Report of Contributions

Conclusion

Contribution ID: 30

Type: not specified

### Conclusion

Friday, 21 September 2001 14:30 (2 hours)

Primary author: M. WEBER , C.W. E. VAN-EIJKPresenter: M. WEBER , C.W. E. VAN-EIJKSession Classification: Conclusion

Application in High Energy Phys ...

Contribution ID: 31

Type: not specified

### Application in High Energy Physics and Nuclear Physics

Monday, 17 September 2001 18:30 (30 minutes)

Primary author: FAURE, JLPresenter: FAURE, JLSession Classification: Detector for physics (DP1)

Status of the PWO crystal produc  $\,\cdots\,$ 

Contribution ID: 32

Type: not specified

## Status of the PWO crystal production from Russia for CMS-ECAL

Monday, 17 September 2001 19:00 (20 minutes)

Primary author: E. AUFFRAYPresenter: E. AUFFRAYSession Classification: Detector for physics (DP1)

SCINT 2001: 6th  $\cdots \,$  / Report of Contributions

Influence of the distribution of P  $\cdots$ 

Contribution ID: 33

Type: not specified

#### Influence of the distribution of PWO crystals radiation hardness on the electromagnetic calorimeter performance

Monday, 17 September 2001 19:20 (20 minutes)

Primary author: DROBYCHEV, GPresenter: DROBYCHEV, GSession Classification: Detector for physics (DP1)

Studies of Lead Tungstate Crysta ···

Contribution ID: 34

Type: not specified

# Studies of Lead Tungstate Crystals for the ALICE electromagnetic calorimeter PHOS

Monday, 17 September 2001 19:40 (20 minutes)

Primary author: IPPOLITOV, MPresenter: IPPOLITOV, MSession Classification: Detector for physics (DP1)

Crystal growth from the melt

Contribution ID: 35

Type: not specified

### Crystal growth from the melt

Tuesday, 18 September 2001 08:30 (30 minutes)

Primary author: FUKUDA, T.Presenter: FUKUDA, T.Session Classification: Crystal Growth (CG)

Mass production of PWO scintill ...

Contribution ID: 36

Type: not specified

#### Mass production of PWO scintillation elements for CMS Electromagnetic Calorimeter

Tuesday, 18 September 2001 09:00 (20 minutes)

Primary author: ANNENKOV, A.Presenter: ANNENKOV, A.Session Classification: Crystal Growth (CG)

Potential of existing Growth Met  $\cdots$ 

Contribution ID: 37

Type: not specified

## Potential of existing Growth Methods of LuAP and related Scintillators

Tuesday, 18 September 2001 09:20 (20 minutes)

Primary author: PETROSYAN, A.Presenter: PETROSYAN, A.Session Classification: Crystal Growth (CG)

Production of REAlO3: Ce scintil ...

Contribution ID: 38

Type: not specified

#### Production of REAIO3: Ce scintillators by Czochralski method

Tuesday, 18 September 2001 09:40 (20 minutes)

Primary author: TKACHEV, A.Presenter: TKACHEV, A.Session Classification: Crystal Growth (CG)

Crystal growth, spectroscopy and …

Contribution ID: 39

Type: not specified

## Crystal growth, spectroscopy and scintillating performance of Yb:YAG

Tuesday, 18 September 2001 10:00 (20 minutes)

Primary author: YANG, P.Presenter: YANG, P.Session Classification: Crystal Growth (CG)

Stages of energy relaxation in sci ...

Contribution ID: 40

Type: not specified

# Stages of energy relaxation in scintillators and their influence on efficiency and energy resolution

Monday, 17 September 2001 16:00 (30 minutes)

Primary author: VASIL'EV, A. Presenter: VASIL'EV, A.

Session Classification: Scintillation mechanisms 1 (SM1)

NaI(Tl) Electron Energy Resolution

Contribution ID: 41

Type: not specified

#### Nal(TI) Electron Energy Resolution

Monday, 17 September 2001 16:30 (20 minutes)

Primary author: MENGESHA, W.Presenter: MENGESHA, W.Session Classification: Scintillation mechanisms 1 (SM1)

Luminescence and Scintillation P ...

Contribution ID: 42

Type: not specified

### Luminescence and Scintillation Properties of zinc oxide

Monday, 17 September 2001 16:50 (20 minutes)

Primary author: WILLIAMS, R.Presenter: WILLIAMS, R.Session Classification: Scintillation mechanisms 1 (SM1)

SCINT 2001: 6th · · · / Report of Contributions

A phenomenon of scintillation in  $\cdots$ 

Contribution ID: 43

Type: not specified

#### A phenomenon of scintillation in solids

Monday, 17 September 2001 17:10 (20 minutes)

**Primary author:** KORZHIK, M.

Presenter: KORZHIK, M.

Session Classification: Scintillation mechanisms 1 (SM1)

Crystal Conditioning for high en ...

Contribution ID: 44

Type: not specified

### Crystal Conditioning for high energy physics detectors

Tuesday, 18 September 2001 11:30 (30 minutes)

Primary author: SCHNEEGANS, M.Presenter: SCHNEEGANS, M.Session Classification: Crystal Conditioning (CC)

SCINT 2001: 6th  $\cdots \ /$  Report of Contributions

Litrani: a general purpose Monte- ···

Contribution ID: 45

Type: not specified

#### Litrani: a general purpose Monte-Carlo program simulating light propagation in isotropic or anisotropic media

Tuesday, 18 September 2001 12:00 (20 minutes)

Primary author: GENTIT, F.Presenter: GENTIT, F.Session Classification: Crystal Conditioning (CC)

SCINT 2001: 6th  $\cdots \ /$  Report of Contributions

Operation characteristics of scint ...

Contribution ID: 46

Type: not specified

#### Operation characteristics of scintillation detectors based on PbWO4, LSO:Ce and CdWO4 crystals for nuclear physics and medical apparatus

Tuesday, 18 September 2001 12:20 (20 minutes)

Primary author: GLOBUS, M.Presenter: GLOBUS, M.Session Classification: Crystal Conditioning (CC)

Functional possibilities of organo ...

Contribution ID: 47

Type: not specified

## Functional possibilities of organosilicon coatings on the surface of Csi-based Scintillators

Tuesday, 18 September 2001 12:40 (20 minutes)

Primary author: KUDIN, A.Presenter: KUDIN, A.Session Classification: Crystal Conditioning (CC)

Defects in Scintillating Crystals

Contribution ID: 48

Type: not specified

#### **Defects in Scintillating Crystals**

Tuesday, 18 September 2001 16:00 (30 minutes)

Primary author: SCHWEIZER, S.Presenter: SCHWEIZER, S.Session Classification: Radiation Damage (RD)

Properties of the heavy Germana ...

Contribution ID: 49

Type: not specified

#### **Properties of the heavy Germanate Glasses**

Tuesday, 18 September 2001 16:30 (20 minutes)

Primary author: CHEN, G.Presenter: CHEN, G.Session Classification: Radiation Damage (RD)

Metastable defects in beryllium o  $\,\cdots\,$ 

Contribution ID: 50

Type: not specified

#### Metastable defects in beryllium oxide crystals

Tuesday, 18 September 2001 16:50 (20 minutes)

Primary author: KRUZHALOV, A.Presenter: KRUZHALOV, A.Session Classification: Radiation Damage (RD)

Thermoluminescent response of  $\cdots$ 

Contribution ID: 51

Type: not specified

# Thermoluminescent response of LiF: Mg,Ti to low energy helium and carbon ions

Tuesday, 18 September 2001 17:10 (20 minutes)

Primary author: RODRIGUEZ-VILLAFUERTE, M.Presenter: RODRIGUEZ-VILLAFUERTE, M.Session Classification: Radiation Damage (RD)

Rare earth activated wide bandga  $\cdots$ 

Contribution ID: 52

Type: not specified

### Rare earth activated wide bandgap materials for scintillators

Tuesday, 18 September 2001 18:00 (30 minutes)

Primary author: WOJTOWICZ, A.Presenter: WOJTOWICZ, A.Session Classification: New Scintillators 1 (NS1)

Scintillation properties of Yb dop ...

Contribution ID: 53

Type: not specified

## Scintillation properties of Yb doped and Yb based aluminium garnets

Tuesday, 18 September 2001 18:30 (20 minutes)

Primary author: BELOGUROV, S.Presenter: BELOGUROV, S.Session Classification: New Scintillators 1 (NS1)

SCINT 2001: 6th  $\cdots \,$  / Report of Contributions

Ytterbium based Scintillators, a n …

Contribution ID: 54

Type: not specified

#### Ytterbium based Scintillators, a new class of inorganic Scintillators for Solar Neutrino Spectroscopy

Tuesday, 18 September 2001 18:50 (20 minutes)

Primary author: CHIPAUX, R.Presenter: CHIPAUX, R.Session Classification: New Scintillators 1 (NS1)

Fast luminescence of HfO2-Yb2O3 ····

Contribution ID: 55

Type: not specified

### Fast luminescence of HfO2-Yb2O3 and ZrO2O3 solid solutions

Tuesday, 18 September 2001 19:10 (20 minutes)

Primary author: KAMENSKIKH, I Presenter: KAMENSKIKH, I Session Classification: New Scintillators 1 (NS1) LuPO4:Nd and YPO4: Nd - new p $\,\cdots\,$ 

Contribution ID: 56

Type: not specified

### LuPO4:Nd and YPO4: Nd - new promising VUV scintillation

Tuesday, 18 September 2001 19:30 (20 minutes)

Primary author: TAVERNIER, S.Presenter: TAVERNIER, S.Session Classification: New Scintillators 1 (NS1)

Quest and Investigation of Long ···

Contribution ID: 57

Type: not specified

#### Quest and Investigation of Long Wavelength Scintillators

Tuesday, 18 September 2001 19:50 (20 minutes)

Primary author: RODNYI, P. Presenter: RODNYI, P.

Session Classification: New Scintillators 1 (NS1)

SCINT 2001: 6th · · · / Report of Contributions

Properties of Avalanche Photodio ....

Contribution ID: 58

Type: not specified

#### Properties of Avalanche Photodiodes for Applications in High Energy Physics, Astrophysics and Medical Imaging

Wednesday, 19 September 2001 08:30 (30 minutes)

Primary author: RENKER, DPresenter: RENKER, DSession Classification: Medical Imaging (MI)

Development of the HiLight Scin ...

Contribution ID: 59

Type: not specified

#### **Development of the HiLight Scintillator for Computed Tomography Medical Imaging**

Wednesday, 19 September 2001 09:00 (20 minutes)

Primary author: DUCLOS, S.Presenter: DUCLOS, S.Session Classification: Medical Imaging (MI)

A new Scintillator for digital X-ray …

Contribution ID: 60

Type: not specified

#### A new Scintillator for digital X-ray Radiographies

Wednesday, 19 September 2001 09:20 (20 minutes)

Primary author: NAGARKAR, VPresenter: NAGARKAR, VSession Classification: Medical Imaging (MI)

Doping PbWO4 with different io ...

Contribution ID: 61

Type: not specified

## Doping PbWO4 with different ions to increase the light yield

Wednesday, 19 September 2001 09:40 (20 minutes)

Primary author: KOBAYASH, M Presenter: KOBAYASH, M Session Classification: Medical Imaging (MI)

Optical properties and scintillatio ...

Contribution ID: 62

Type: not specified

### Optical properties and scintillation mechanism in Lu0.8Y0.2AlO3: Ce

Wednesday, 19 September 2001 10:00 (20 minutes)

Primary author: KUNTNER, CPresenter: KUNTNER, CSession Classification: Medical Imaging (MI)