www.PositronAnnihilation.net - international Web-project devoted to positron annihilation

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## Introduction

The internet project "PositronAnnihilation.net" is devoted to Positron Annihilation as an experimental method in materials research. It's main idea, as discussed at PSSD-02 (3d Int. Workshop on Positron Studies of Semiconductor Defects), is to create an international Web portal with coordination at Halle-University (Germany) that has three major goals to achieve:

- ...informative;
- educational;
- . communicative.

# Informational portal

is intended in the first place for non-positron physicists and industrial researchers and contains representative information on:

- applications of different positron annihilation techniques for both basic materials research and for solving some distinct industrial problems;
- positron laboratories all over the world;
- » big-scale user-dedicated positron projects.

Furthermore, it is aimed to inform positron scientists and students about:

- conferences, meetings or workshops relevant to positron annihilation:
- other positron annihilation related news.

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# **Communication portal**

This part of PA.net should evolve into a convenient internet communication platform for the scientists and students working on the field of positron annihilation. It's heart is PA.net self-organized database, which includes:

Almost all kinds of scientific publications related to positron annihilation:

papers; scientific talks; posters.

The procedure of addition of new publications is completely automated - a registered PA.net user can make his contribution online in several minutes. The new publications will be announced to other PA.net members in monthly Newsletters.

Up to the 04-Sep-2003, PA.net Database contains: 45 Papers, 8 Posters and 8 Talks.

- Mailing list, which provides a contact information of registered PA.net users. It is on the user responsibility to keep his contact data up-to-date by putting necessary corrections to his user profile.
- Software collection: represents information on all kinds of nowadays available software tools for analysis of positron annihilation data, for theoretical calculations of annihilation parameters, spectra simulation, etc.
- Conferences

Actual information on positron-related conferences.

Furthermore, there is a PA.net Forum for all kind of (not only) scientific discussions.





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# Educational portal

is thought to provide interested students with complete and comprehensive information related to physics of Positron Annihilation phenomena in different materials. This involves description of the:

- historical evolution of positron annihilation as the method of experimental physics;
- basic theories of positron annihilation in different media (metals, semiconductors, polymers, liquids, gases, etc.);
- physical principles of different experimental techniques;
- existing Software tools for analysis of experimental data etc.



