

Closing remarks

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Closing remarks

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Abstract. The presentation concludes the 19th International Spin Physics Symposium SPIN2010, held at the Forschungszentrum Jülich during September 27 to October 2, 2010. After a brief summary of the scientific and social program, the results of the Meeting of the International Spin Physics Committee are given, including new and retiring members, location of the next Spin Symposium and Sponsorship of the 2011 Spin Workshops.

1. Spin Physics Symposia

The Conference Series *Spin Physics Symposia* emerged from two series:

- The biannual *Symposia on High Energy Spin Physics*, starting in 1974 at the Argonne National Laboratory (Chicago); follow-up meetings were at Argonne 1976 and 1978, Lausanne 1980, Brookhaven 1982, Marseille 1984, Protvino 1986, Minneapolis 1988, Bonn 1990, Nagoya 1992, Bloomington 1994, Amsterdam 1976 and Protvino 1998.
- The *Symposia on Polarization Phenomena in Nuclear Physics*, starting at Basel in 1960 and conducted every five years at Karlsruhe 1965, Madison 1970, Zürich 1975, Santa Fe 1980, Osaka 1985, Paris 1990 and Bloomington 1994, the last one being in parallel to the HE Spin Physics meeting.

At the Paris Polarization Conference it was agreed to join together with the HE Spin Physics community - a similar initiative came from the High Energy Spin community. The next meeting was held in 1994 at Bloomington in parallel to the HE Spin meeting. It took until 2000 for the first joint meeting in Osaka, named as *The 14th International Spin Physics Symposium*, followed by meetings at Brookhaven 2002, Trieste 2004, Kyoto 2006, Charlottesville (Virginia) 2008, and now at Jülich in 2010. Taking the first Symposium dealing with Spin Polarization at Basel in 1960 as starting point of our conference series, we can celebrate these days its 50th anniversary!

The Spin Physics Symposia and Spin Workshops are initiated by the Spin Committee (ISPC) which meets every two years. The scientific programs of these meetings include topics related to spin phenomena in particle and nuclear physics as well as those in neighboring fields. In addition, the ISPC may take initiatives to promote Spin physics. Details on the Spin Physics Community and on previous and future meetings can be found at

www.spin-community.org

2. Looking back on SPIN2010

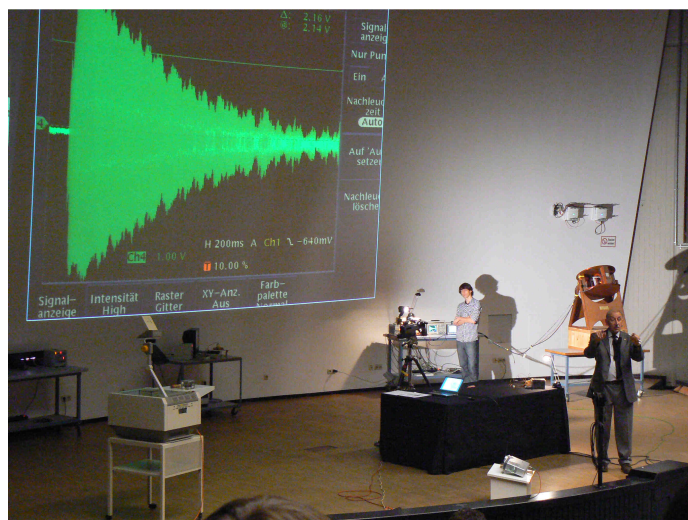
The meeting was organized by Hans Ströher (Chair), Frank Rathmann (Co-chair) and Tanja Weber (event management). There were about 300 participants, including 47 students. The program consisted of 37 plenary talks and 168 contributed talks in up to five parallel sessions. All contributions were presented orally without posters. The distribution of talks among the various subjects was as follows:

1. Fundamental symmetries	10
2. Spin structure of hadrons	59
3. Spin physics beyond the SM	10
4. Spin in hadronic reactions	44
5. Spin physics with photons and leptons	18
6. Spin physics in nuclear reactions ...	16
7. Spin physics with rare isotope beams	1
8. Acceleration, storage, and polarimetry	26
9. Polarized sources and targets	12
10. Future facilities and experiments	19
11. Applications	7

At the end of this exciting meeting we can conclude that we enjoyed a broad program illustrating the many facets of spin as a tool to investigate and test fundamental questions in nuclear and particle physics and neighboring fields. As in previous years, this Spin Symposium brought together experts from theory and experiment helping to gain new insights and to identify open problems. This was addressed in the Summary by Nikolai Nikolaev (Jülich).

A Public Lecture took place at the Aachen Technical University, attracting students and the lay public. In his outreach talk *Drall in der Quantenwelt* (in German), Hans-Otto Meyer (Bloomington) demonstrated in a vivid manner some basic properties of Spin, like precession of a magnetic top, or free precession of proton spins in the earth magnetic field (see figure 1) which was even made audible. The audience thanked him and his team for the huge effort in preparing such a lecture, as well as Board Member Sebastian Schmidt of the Research Center Jülich.

Figure 1. H.-O. Meyer (right) explains the result of the free precession experiment, assisted by Chr. Weidemann. The decay curve of the 2kHz induction signal is visible in the left. It was transmitted by loud-speakers, thus enabling the audience to ‚hear‘ the proton spin!



The Social Program took place in the near-by Carolingian capital Aachen, where most of the participants were staying. There were guided tours ‘on foot’ through the old center of Aachen with the Palatine Chapel (8th century, see figure 2) and the City Hall (14th century). The conference dinner was at the Aachen Casino with music and dancing, e.g., spinning transversely around a common axis of rotation with varying sign. The Organ Recital at the Dome exclusively for the SPIN2010 participants will surely be memorized as a conference highlight.

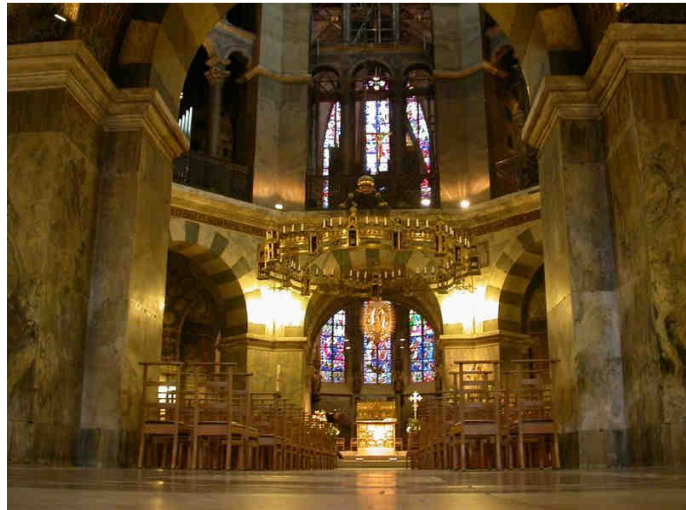


Figure 2. The Palatine Chapel of Charlemagne (8th century), now part of the Aachen Cathedral.

3. Meeting of the International Spin Physics Committee (ISPC)

The biannual meeting of the ISPC was on September 27, 2010. The list of the 2009-2010 ISPC members is given in the preface of these Proceedings. There were several decisions taken in the course of the meeting:

3.1 Bylaws

A new set of bylaws has been agreed on which puts the work of the ISPC on a firm basis. It includes rules on membership as voting and honorary member, on the election of a new Chair, on the selection of the site of the next Symposium and on Sponsorship of Spin Workshops.

3.2 New and retiring members

The terms of seven voting members expire on Dec.31, 2010. Two have been re-elected for a second term (4 y): H. Gao – Duke, and H. Sakai – Tokyo. Five new members have been elected: A. Belov – INR Moscow, P. Lenisa – Ferrara, M. Poelker – JLab, N. Saito – KEK and H. Ströher – Jülich. Out of the retiring members, two were elected Honorary Member: F. Bradamante – Trieste and D.G. Crabb – Virginia.

The new 2011-2012 committee consists of

- *Voting Members:* E. Steffens (Chair), T. Roser – BNL (Past-Chair), R.G. Milner (Chair-elect), M. Anselmino – Torino, A. Belov – INR Moscow, A.V. Efremov – Dubna, H. Gao – Duke, K. Imai – Kyoto, A.D. Krisch – Michigan, G. Mallot – CERN, P. Lenisa – Ferrara, M. Poelker – JLab, R. Prepost – Wisconsin, N. Saito – Tokyo, E. Stephenson – Indiana, H. Ströher – Jülich, N.E. Tyurin
- *Honorary Members:* F. Bradamante – Trieste, E.D. Courant – BNL, D.G. Crabb – Virginia, G. Fidecaro – CERN, W. Haeberli – Wisconsin, A. Masaïke – Kyoto, C.Y. Prescott – SLAC, V. Soergel – Heidelberg, W.T.H. van Oers – Manitoba.

3.3 Next Chair

The Chair Nominating Subcommittee (A. Krisch, C.Y. Prescott and V. Soergel) nominated R.G. Milner – MIT which was confirmed by voting of the full committee. R.G. Milner will serve as Chair elect 2011-2012 and become Chair for four years at the beginning of 2013.

3.4 Site of the next Spin Symposium and Workshops

The next Spin Symposium SPIN2012 will be at Dubna in September 2012. The proposal was put forward by A. Nagaitsev, A.V. Efremov and Dubna Vice-Director R. Lednicky.

The next workshop on Polarized Sources, Targets and Polarimetry PST2011 will be organized at St. Petersburg by A. Vasilyev – Gatchina in September 2011.

The next workshop Dubna-Spin Workshop DSPIN-11 organized by A.V.Efremov – Dubna was approved for sponsorship.

Three years after Transversity 2008, a new workshop on transverse spin effects (Transversity 2011) will be organized by Franco Bradamante and Anna Martin – Trieste in September 2011.

I wish the organizers good success and I hope for exciting meetings in the next couple of years for the benefit of our field. The high level of our meetings relies on strong competition of applications from all over the world, and I would like to invite such ideas to be discussed during our next meeting in two years from now!

Let me thank the SPIN2010 participants for their very interesting contributions, the organizers Hans Ströher, Frank Rathmann and Tanja Weber for this wonderful event, the secretarial staff Yasmin Fattah, Jessica Artz, Vanessa Kau and Christina Oslender for the smooth running of the meeting, and the team of the many supporters headed by Andro Kacharava and Detlev Gotta for their huge effort which helped to make the meeting a success!

Thank you for this excellent meeting – and see you in Dubna in two years from now!