

## Research

The ASC is supported by the existing theory groups at the LMU, whose research currently focuses on:

- Cosmology and astrophysics,
- Elementary particle physics,
- Mathematical physics and string theory,
- Solid state physics and nanophysics,
- Statistical physics and biophysics,
- Quantum optics and quantum information.

## Membership and Board

The ASC was founded by theoretical physicists from the LMU, but is open to anyone who wants to contribute significantly to theoretical physics or related disciplines. The ASC welcomes **applications for scientific membership** (to be addressed to the ASC spokesman), which are reviewed and approved by the board of the ASC.

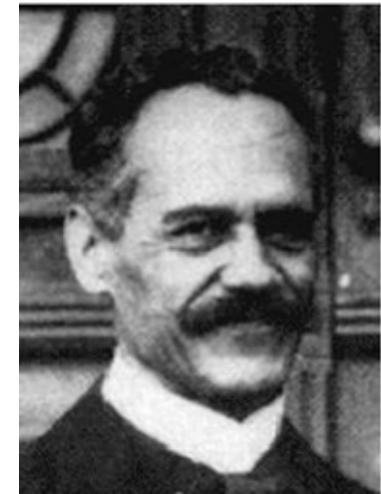
The ASC is governed by a **board** of five scientific directors, with one acting as the spokesman.

The ASC is assisted by an **advisory board** of internationally renowned scientists.

## Fundraising

The ASC is actively seeking additional funding and donations, to support its many planned activities. Their usage will be accounted for on an annual basis. The ASC will issue income tax receipts for all qualifying donations received. Donations should be made payable to **ASC** into the following account:

Förderverein Physik e. V.  
Hypovereinsbank  
IBAN 90 62 77 24  
BIC 700 202 70



## The “Sommerfeld School”

Arnold Sommerfeld (1868-1951) is, together with Max Planck, Albert Einstein and Niels Bohr, one of the founding fathers of modern theoretical physics. In the first decades of the 20<sup>th</sup> century he established a world-famous center for theoretical physics in Munich. As an author of a text book series, through his scientific contributions to atomic physics and through his “school” (to which one may count the Nobel prize recipients Peter Debye, Wolfgang Pauli, Werner Heisenberg and Hans Bethe, to name but a few), Sommerfeld contributed like no other in that period to the advancement of modern physics. The **Arnold Sommerfeld Center for Theoretical Physics (ASC)** hopes to resume this tradition.

The ASC is sponsored by the Ludwig-Maximilians-University Munich (LMU). Major funding is also provided by the Max-Planck Foundation (MPG) and by the Bavarian Ministry of Science, Research and Art.

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## Statement of Purpose

The ASC is an **international center for theoretical physics**. Its purpose is to bring together scientists from all over the world and from **all fields of theoretical physics**, and to offer them an environment conducive to **interactive and interdisciplinary research** by both resident and visiting junior and senior scientists. In addition, the ASC plans to offer, much in the spirit and tradition of Arnold Sommerfeld, a large set of **advanced graduate courses, seminars and workshops**.

The ASC plans to have an **active visitor’s program**. **Visiting scientists** will be encouraged to give advanced mini-courses about their research, thereby adding depth to the **advanced-level teaching program** of the ASC.

In this way, the ASC hopes to contribute to

- interdisciplinary graduate and post-doctoral training,
- the internationalization of physics education,
- the education of outstanding young scientists.

## Activities

- The ASC plans to invite leading scientists for **short-term and long-term visits**.
- The ASC plans to invite **young scientists** for research stays at the LMU.
- The ASC plans to establish a **program of doctoral studies in English language**.
- **Visiting scientists** will contribute with **short lectures** on topics of their research interests.
- The ASC plans to have a series of **Sommerfeld lectures** on a regular basis, to be held by a renowned theoretical physicist as **Distinguished Sommerfeld Fellow**.
- The ASC will organize **thematic programs/workshops** on current research topics on a regular basis. Visiting scientists will be invited to advise on the selection of the topics and to participate in the organization of these ASC events.