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Location

From the Bremen central station

A short 10 minute walk or take trams 4, 5, 6, 8, 24 or 25 to *Schüsselkorb*

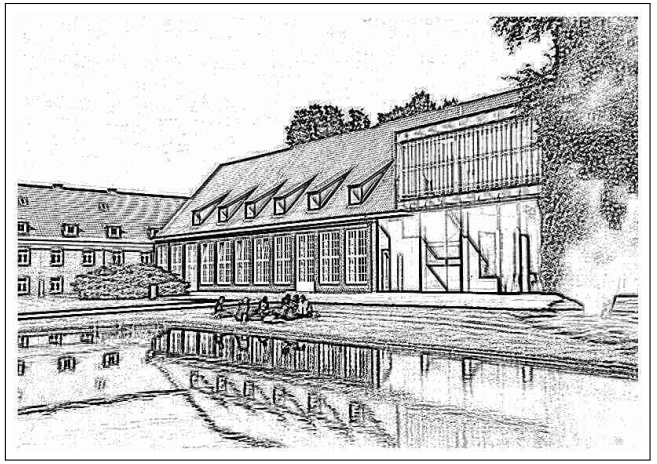
From the Airport

Take tram 6 to the stop *Domsheide*

Address

Großer Vortragssaal
Haus der Wissenschaft
Sandstraße 4/5
28195 Bremen
+49 421 218 695-00
www.hausderwissenschaft.de

JACOBS UNIVERSITY



COLLOQUIUM

dedicated to the 60th birthday

of Prof. Dr. Peter Oswald

24. November 2011, 3pm

Haus der Wissenschaft

Bremen

INVITATION

You are cordially invited to the colloquium dedicated to the 60th birthday of Prof. Dr. Peter Oswald at the *Großer Vortragssaal* of the *Haus der Wissenschaft*, Sandstraße 4/5, Bremen.

The talks will be followed by a festive dinner in the *Ratskeller Bremen*.

Please indicate your attendance of the colloquium and/or the dinner to the organizers, preferably by October, 15th.

PROGRAM

15:00 Welcome

15:10 Hans Triebel

Spaces of measurable functions

16:00 Coffee Break

16:30 Wolfgang Dahmen

Stable splittings – a magic concept

17:20 Michael Griebel

Generalized sparse grid approximations

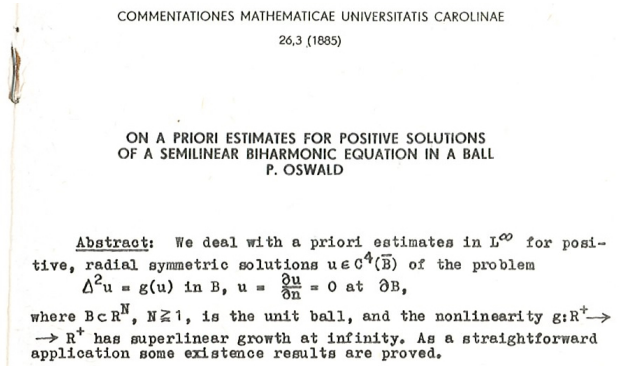
18:10 Closing remarks

19:00 Dinner at Ratskeller Bremen

Peter Oswald's highly regarded work is centered in the mathematical areas of Functional Analysis, Approximation Theory and Numerical Analysis. In particular, his work on the numerical treatment of partial differential equations by means of stable multiscale splittings and associated frame methods has influenced current research and is regarded as being seminal.

Before joining Jacobs University, Peter Oswald spent the largest part of his career at Technische Universität Dresden, Friedrich-Schiller-Universität Jena, and Bell Labs/Lucent Technologies.

His research dates back as far as 1885 (see below).



COMMENTATIONES MATHEMATICAE UNIVERSITATIS CAROLINAE
26,3 (1885)

ON A PRIORI ESTIMATES FOR POSITIVE SOLUTIONS
OF A SEMILINEAR BIHARMONIC EQUATION IN A BALL
P. OSWALD

Abstract: We deal with a priori estimates in L^∞ for positive, radial symmetric solutions $u \in C^4(\bar{B})$ of the problem
$\Delta^2 u = g(u)$ in B, $u = \frac{\partial u}{\partial n} = 0$ at ∂B,
where $B \subset R^N$, $N \geq 1$, is the unit ball, and the nonlinearity $g: R^+ \to R^+$ has superlinear growth at infinity. As a straightforward application some existence results are proved.