

Newsletter April/May 2009: Splitting-Group in Action

Dear Colleagues, Students and Friends of our Splitting Group in Action, many conferences and workshops have been passed and our work go on to the next summer break.

Recently we have discussed new cooperations to applications in physics in a workshop to honor our member Prof. Siu Chin.

Here an impact of higher order splitting methods are necessary to design efficient forward time-step algorithms. Applications are dynamical systems in quantum physics and classical mechanics.

Such workshops I like to see more in our group to combine our knowledge of splitting methods and carefully study of physical and engineering problems.

We decide to start annual workshops, the next will be in Berlin, to meet specialists in splitting methods and applications to discuss about next developments in these areas.

By the way, the next conference will be at Beijing and Boston, and we should meet each others.

Splitting methods stand and fall with specific applications and to embed their physical behaviors. Often standard methods can be used and improved with additional corrections to get higher order accuracy and efficient solvers.

We have developed in many years so different splitting methods, adaptive, iterative, non-iterative, time-dependent and so on, so let us go on to delicate problem and adapt our schemes.

Our benefits are collaborations with colleagues in physics, chemistry, engineering, economics to see their impact of our schemes.

Let us go on to the next events and get 2009 as successful as possible.

I hope to see you all in 2009. Next newsletter will be send out in June 2009.

I wish you all a nice time.

Best regards,

Juergen Geiser

Next events:

- 1.) Next year events
- 2.) Special Issues
- 3.) Open positions
- 4.) Foundations
- 5.) Remarks

ad. 1.) Events in 2009

1.1.) MIT, June 2009

Our annually conference in 2009 will be held at MIT, Boston, USA :

Fifth M.I.T. Conference on Computational Fluid and Solid Mechanics : Advances in CFD, June 17 - 19, 2009

please visit: <http://www.fifthmitconference.org>

Recent Advances in Decomposition Methods for Computational Fluid Mechanics: Theory and Applications Local Organizers : Geiser Juergen, Sheng Qin

See our mini-symposium page:

<http://www.mathematik.hu-berlin.de/>

1.2.) Scicade, Beijing, May 25-29, 2009.

see :

<http://www.conferencenet.org/conference/scicade.htm>

1.3.) Numdiff 12, Halle, September 2009.

see :

<http://sim.mathematik.uni-halle.de/numdiff/Numdiff12/>

1.4.) AIMS meeting on Dynamical Systems, Differential Equations and Applications at Dresden, May 2010.

see : <http://aimsciences.org/AIMS-Conference/2010/>.

Prof. Sheng and I organize a minisymposium, see the attached announcement.

1.5.) Workshop: Higher order splitting method: Theory and Applications, Humboldt University of Berlin, May 2010.

will be soon announced.

ad. 2.) Special Issue :

2.1.) Special issue of our conference papers.

none

ad 3.) Open positions :

none.

ad 4.) International Foundations to be important for our European group members:

none.

ad 5.) Additional remarks

New conferences, open positions, new special issues can be announced.

Please let me know your ideas and feedback.

Thanks for your time and your cooperation.

With best regards,

Juergen Geiser