

# WORKSHOP ON NONLINEAR SYSTEMS

November 26, 2018

Gebze Technical University, Department of Mathematics

## Organizing Committee.

- Mansur İsgenderođlu, Gebze Technical University.
- Mahmut Kudeyt, Iřık University.
- Ođul Esen, Gebze Technical University.

## Updated List of Participants.

- ıđdem Ay, Gebze Technical University.
- Ođul Esen, Gebze Technical University.
- Ilmar Gahramanov, Mimar Sinan Fine Arts University.
- Partha Guha, S. N. Bose National Centre for Basic Sciences.
- Hasan Gümral, Yeditepe University.
- Serap Gürer, Galatasaray University.
- Mansur İsgenderođlu, Gebze Technical University.
- Ođuzhan Kaya, Galatasaray University.
- Mahmut Kudeyt, Iřık University.
- Pelin Gökğöz, Yeditepe University.
- Gülden Gün Polat, İstanbul Technical University.
- Emil Novruz, Gebze Technical University.
- Serkan Sütli, Iřık University.
- Taylan řengül, Marmara University.
- Önder Türk, Gebze Technical University.
- Yasemin Yılmaz, Yeditepe University.
- Filiz ađatay Uçgun, Maltepe University.

### **Tentative Schedule.**

All lectures will be given in Department of Mathematics of Gebze Technical University, **door number of the classroom is 10**. It is located at the second floor of İşletme Building.

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| 09:10-09:20 | Opening  |
| 09:20-10:00 | Hasan Gümral<br><b>4D Poisson Structure</b>  |
| 10:00-10:40 | Serkan Sütlü<br><b>Matched Pair Decomposition of Vlasov Dynamics</b>                                     |
| 10:40-11:00 | Break  |
| 11:00-11:40 | Partha Guha<br><b>Nambu-Hamiltonian Systems: Hamilton-Jacobi Theory</b>                                  |
| 11:40-12:20 | Oğul Esen<br><b>Nambu-Hamiltonian Systems: Three-Bracket Dissipation</b>                                 |
|             | LUNCH BREAK  |
| 13:20-14:00 | Mansur İsgenderoğlu<br><b>Integrable Integro-Differential Evolution Equations<br/>Lax Pair Formalism</b> |
| 14:00-14:40 | Ilmar Gahramanov<br><b>Integrability Properties of Motzkin Polynomials</b>                               |
| 14:40-15:00 | Break  |
| 15:00-15:40 | Taylan Şengül<br><b>Interior Structural Bifurcation of 2D Symmetric Incompressible Flows</b>             |
| 15:40-16:00 | Closing Remarks  |