## Program

<table>
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<tr>
<th>Time</th>
<th>Session / Activity</th>
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<tr>
<td>08:15 - 08:45</td>
<td>Registration and Coffee</td>
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<tr>
<td>08:45 - 09:00</td>
<td>Welcoming Remarks</td>
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<tr>
<td>09:00 - 10:30</td>
<td>First Session</td>
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<tr>
<td>09:00 – 09:30</td>
<td>Y. Maron, WIS (Invited)</td>
<td>Dynamics of the K-radiating stagnating plasmas in z-pinch experiments: Implications for pressure and energy balance</td>
</tr>
<tr>
<td>09:30 - 09:45</td>
<td>R. Doron, B. Rubinstein, A. Fruchtman, R. Arad. J. Citrin, and Y. Maron, WIS and HIT</td>
<td>The structure of a magnetic-field front propagating through low-resistivity, multi-ion species plasma</td>
</tr>
<tr>
<td>09:45 - 10:00</td>
<td>O. Antonov, S. Efimov, D. Yanuka, V. Tz. Gurovich and Ya. E. Krasik, Technion</td>
<td>Generation of converging strong shock wave by underwater electrical explosion of spherical wire array</td>
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<tr>
<td>10:00 - 10:15</td>
<td>D. Shafer, G. Toker, V. Tz. Gurovich, S. Gleizer and Ya. E. Krasik, Technion Hit</td>
<td>Convergence of shock wave generated by underwater electrical explosion of ring-shaped wires</td>
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<tr>
<td>10:15-10:30</td>
<td>I. Be’ery, O. Seemann, A. Fruchtman, A. Fisher and J. Nemirovsky, Technion and Hit</td>
<td>Measuring drift velocity and electric field in mirror machine by fast photography</td>
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<td>10:30 - 10:50</td>
<td>Coffee break</td>
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<td>10:50 - 12:20</td>
<td>Second Session</td>
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<tr>
<td>10:50 - 11:20</td>
<td>J. Jortner, TAU (Invited)</td>
<td>Conversion of laser energy to nuclear energy</td>
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<tr>
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<tr>
<td>12:20 - 14:00</td>
<td>Lunch and Posters</td>
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<tr>
<td>14:00 - 15:15</td>
<td>Third Session</td>
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<tr>
<td>14:00 – 14:30</td>
<td>N. J. Fisch, Princeton (Invited)</td>
<td>Wave compression in plasma</td>
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<tr>
<td>14:30 - 14:45</td>
<td>P. Khain and L. Friedland, HUJI</td>
<td>Resonant excitation of plasma waves via formation of holes in phase space</td>
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<tr>
<td>14:45 - 15:00</td>
<td>A. Yahalom, Ariel</td>
<td>Aharonov Bohm constraints for fusion</td>
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<tr>
<td>15:00 - 15:15</td>
<td>J. H. P. Mizrahi and Ya. E. Krasik, Technion</td>
<td>Radial ion dynamics in a cylindrical hollow cathode</td>
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<tr>
<td>15:15 - 15:35</td>
<td>Coffee break</td>
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<tr>
<td>15:35 – 16:50</td>
<td>Fourth Session</td>
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<tr>
<td>15:35 - 15:50</td>
<td>G. Makrinich and A. Fruchtman, HIT</td>
<td>Enhanced momentum delivery by electric force due to ion-neutral collisions</td>
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<tr>
<td>15:50 - 16:05</td>
<td>D. Lev, Rafael</td>
<td>Review of Magneto-Plasma-Dynamic (MPD) thrusters</td>
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<tr>
<td>16:05 - 16:20</td>
<td>M. Einat, M. Pilossof, R. Ben-Moshe, H. Hirshbein and D. Borodin, Ariel</td>
<td>95GHz gyrotron with ferroelectric cathode</td>
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<tr>
<td>16:35 - 16:50</td>
<td>E. Gidalevich and R. L. Boxman, TAU</td>
<td>Effective Cathode Voltage Increase in a Vacuum Arc with a Black Body Electrode Configuration</td>
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<tr>
<td>16:50 - 17:10</td>
<td>Electing new IPSTA Chair and Committee</td>
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<tr>
<td>17:10 - 17:30</td>
<td>Samuel Goldsmith Best Student Presentation Awards</td>
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<tr>
<td>17:30 – 18:00</td>
<td>Farewell party</td>
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Posters


2. S. Yatom and Ya. E. Krasik, Technion - Spectroscopic research of the plasma parameters generated during nanosecond “runaway” discharge at atmospheric pressure.


5. Y. Katzir and A. Zigler, HUJI - High intensity laser optical manipulation by plasma channels for contrast ratio enhancement and high harmonic generation.


7. A. Sayapin and A. Levin, Technion - Relativistic magnetron with inbuilt magnetic block.