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B. LASER, PARTICLE BEAMS, AND FUSION TECHNOLOGY

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Heavy ion fusion science research for high energy density physics and fusion applications <i>B G Logan, J J Barnard, F M Bieniosek, R H Cohen, J E Coleman, R C Davidson, P C Efthimion, A Friedman, E P Gilson, W G Greenway, L Grisham, D P Grote, E Henestroza, D H H Hoffmann, I D Kaganovich, M K Covo, J W Kwan, K N LaFortune, E P Lee, M Leitner, S M Lund, A W Molvik, P Ni, G E Penn, L J Perkins, H Qin, P K Roy, A B Sefkow, P A Seidl, W Sharp, E A Startsev, J-L Vay, W L Waldron, J S Wurtele, D Welch, G A Westenskow and S S Yu</i>	032029
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Investigation into the processes of plasma production on the surface of electrodes made from different materials on Angara-5-1 <i>V Aleksandrov, I Frolov, E Grabovsky, A Gribov, Y Laukhin, K Mitrofanov, G Oleinik, I Porofeev and V Smirnov</i>	032031
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Conceptual design of a fast-ignition laser fusion reactor based on a dry wall chamber <i>Y Ogawa, T Goto, K Okano, Y Asaoka, R Hiwatari and Y Someya</i>	032033
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3D neutronic calculations: CAD-MCNP methodology applied to vessel activation in KOYO-F <i>Y Herrerias, A Lafuente, F Sordo, O Cabellos and J M Perlado</i>	032046

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New amplifying laser concept for inertial fusion driver <i>G A Mourou, C Labaune, D Hulin and A Galvanauskas</i>	032052
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A key issue for next generation diode pumped solid state laser drivers for IFE: amplified spontaneous emission in large size, high gain Yb:YAG slabs <i>D Albach, F Assémat, S Bahbah, G Bourdet, J-C Chanteloup, P Piatti, M Pluvinage, B Vincent and G L Touzé</i>	032057
New concept for laser fusion energy driver by using cryogenically-cooled Yb:YAG ceramic <i>J Kawanaka, N Miyanaga, T Kawashima, K Tsubakimoto, Y Fujimoto, H Kubomura, S Matsuoka, T Ikegawa, Y Suzuki, N Tsuchiya, T Jitsuno, H Furukawa, T Kanabe, H Fujita, K Yoshida, H Nakano, J Nishimae, M Nakatsuka, K Ueda and K Tomabechi</i>	032058
Development of cryogenic TGG ceramic based Faraday rotator for inertial fusion driver <i>R Yasuhara, S Tokita, J Kawanaka, T Kawashima, H Kan, H Yagi, H Nozawa, T Yanagitani, Y Fujimoto, H Yoshida and M Nakatsuka</i>	032059
High order wavefront correction for a 1 joule class Nd:YLF rod amplifier by phase conjugate plate <i>T Sekine, S matsuoka, T kawashima, H Kan, J Kawanaka, K Tsubakimoto, M Nakatsuka and Y Izawa</i>	032060

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Numerical laser gain estimation of cryogenic Yb:YAG ceramics for IFE reactor driver <i>A Yoshida, S Tokita, J Kawanaka, T Yanagitani, H Yagi, F Yamamura and T Kawashima</i>	032062
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Status of cryogenic layering for NIF ignition targets <i>J D Moody, B J Koziowski, E R Mapoles, J D Sater, E L Dewald, J A Koch, N Izumi, A Chernov, J Salmonson, R C Montesanti, L J Atherton, J A Burmann, J W Pipes, D Stefanescu, K Salari, T Weisgraber, J Reynolds, C Castro, J Klingmann and B Dzenitis</i>	032064
A new method to prepare minimum-mass tin EUV targets <i>L Ge, K Nagai, T Norimatsu, H Nishimura, K Nishimura, S Fujioka, N Miyanaga, K Mima and Y Izawa</i>	032065
Developments of characterization of the foam shell target for fast ignition realization experiment-I (FIREX-I) <i>T Fujimura, A Iwamoto, M Nakai, T Norimatsu, K Nagai, H Yang, Y Kimura, H Sakagami, T Mito and K Mima</i>	032066
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Target manufacturing and delivery for HiPER <i>P J Perin, M J Perlado, M Tolley and Team of WP6/HiPER</i>	032070
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Experiments for the validation of debris and shrapnel calculations <i>A E Koniges, C S Debonnel, J Andrew, D Eder, D Kalantar, N Masters, A Fisher, R Anderson, B Gunney, B Brown, K Sain, F Bonneau, J-L Bourgade, J-M Chevalier, P Combis, A Geille, J-P Jadaud, Maroni, D Raffestin, J-L Ulmer, J Vierne, A M Tobin, M Meyers and H Jarmakani</i>	032072
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<i>R Marmoret, J Y Boutin, R Rosch, G Soullié, P Troussel, O Landoas, L Disdier and J L Bourgade</i>	
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<i>R J Leeper, C L Ruiz, G A Chandler, G W Cooper, D E Bower, D N Fittinghoff, E C Hagen, J R Hollaway, I J McKenna, L A McPherson, M J May, B T Meeham, A J Nelson, T S Perry, J L Porter, L L Robbins, D B Sinars, J A Torres and L H Ziegler</i>	
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<i>G P Grim, P A Bradley, R D Day, D D Clark, V E Fatherley, J P Finch, F P Garcia, S A Jaramillo, A J Montoya, G L Morgan, J A Oertel, T A Ortiz, J R Payton, P Pazuchanics, D W Schmidt, A C Valdez, C H Wilde, M D Wilke and D C Wilson</i>	
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Application of bubble detector in FIREX program	032081
<i>O Maegawa, T Fujiwara, M Nakai and H Shiraga</i>	
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<i>Y Arikawa, M Nakai, T Watari, H Hosoda, K Takeda, T Fujiwara, Y Furukawa, T Norimatsu, H Shiraga, N Sarukura and H Azechi</i>	
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<i>H W Herrmann, S E Caldwell, D Drew, S C Evans, V Y Glebov, C J Horsfield, J M Mack, G S Macrum, E K Miller, P Sanchez, T Sedillo, C Stoeckl, D C Wilson and C S Young</i>	
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C. SCIENCE AND TECHNOLOGY APPLICATIONS

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