

D.J. Thoen  
Tera-Hertz Sensing

## Research output

### **Geometry dependence of two-level-system noise and loss in a - Si C: H parallel-plate capacitors for superconducting microwave resonators**

Kouwenhoven, K., Van Doorn, G. P. J., Buijtenorp, B. T., De Rooij, S. A. H., Lamers, D., Thoen, D. J., Murugesan, V., Baselmans, J. J. A. & De Visser, P. J., 2024, In: *Physical Review Applied*. 21, 4, 13 p., 044036.

### **Modeling and Testing Superconducting Artificial CPW Lines Suitable for Parametric Amplification**

Mena, F. P., Valenzuela, D., Espinoza, C., Pizarro, F., Tan, B-K., Thoen, D. J., Baselmans, J. J. A. & Finger, R., 2024, In: *IEEE Transactions on Applied Superconductivity*. 34, 6, 8 p., 3500808.

### **Pointing Calibration of GroundBIRD Telescope Using Moon Observation Data**

Sueno, Y., Baselmans, J. J. A., Coppens, A. H. M., Génova-Santos, R. T., Hattori, M., Karatsu, K., Lee, K., Suzuki, J., Thoen, D. J. & More Authors, 2024, In: *Progress of Theoretical and Experimental Physics*. 2024, 2

### **Resolving Power of Visible-To-Near-Infrared Hybrid $\beta$ -Ta/Nb-Ti- N Kinetic Inductance Detectors**

Kouwenhoven, K., Fan, D., Biancalani, E., De Rooij, S. A. H., Karim, T., Smith, C. S., Murugesan, V., Thoen, D. J., Baselmans, J. J. A. & De Visser, P. J., 2023, In: *Physical Review Applied*. 19, 3, 13 p., 034007.

### **Antenna-coupled MKIDs for an Integral Field Unit at 7.8 THz**

Pascual Laguna, A., Bueno, J., Yates, S. J. C., Ferrari, L., Murugesan, V., Thoen, D. J., Dabironezare, S. O., Zhang, H., Llombart, N. & Baselmans, J. J. A., 2022, *Proceedings of the 2022 47th International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz)*. IEEE, p. 1-2 2 p.

### **Characterization of low-loss hydrogenated amorphous silicon films for superconducting resonators**

Buijtenorp, B. T., Bueno, J., Thoen, D. J., Murugesan, V., Sberna, P. M., Baselmans, J. J. A., Vollebregt, S. & Endo, A., 2022, In: *Journal of Astronomical Telescopes, Instruments, and Systems*. 8, 2, 13 p., 028006.

### **Combined ultraviolet- and electron-beam lithography with Micro-Resist-Technology GmbH ma-N1400 resist**

Thoen, D. J., Murugesan, V., Pascual Laguna, A., Karatsu, K., Endo, A. & Baselmans, J. J. A., 2022, In: *Journal of Vacuum Science and Technology B*. 40, 5, 10 p., 052603.

### **DESHIMA 2.0: Development of an Integrated Superconducting Spectrometer for Science-Grade Astronomical Observations**

Baselmans, J. J. A., Karatsu, K., Llombart, N., Rybak, M., Bueno, J., Buijtenorp, B. T., Dabironezare, S. O., Hähnle, S., Pascual Laguna, A., Thoen, D. J., Yates, S. J. C., Endo, A. & More Authors, 2022, In: *Journal of Low Temperature Physics*. 209, 3-4, p. 278-286 9 p.

### **Far infrared imaging spectrometers for the next generation astronomical instruments**

Baselmans, J. J. A., Endo, A., Karatsu, K., Hähnle, S., Pascual Laguna, A., Yates, S., Ferrari, L., Llombart, N., Bueno, J., Facchi, F., Thoen, D., Murugesan, V., van der werf, P. & de Visser, P. J., 2022, *Proceedings of the 2022 47th International Conference on Infrared, Millimeter and Terahertz Waves (IRMMW-THz)*. IEEE, p. 1-2 2 p.

### **Hydrogenated Amorphous Silicon Carbide: A Low-Loss Deposited Dielectric for Microwave to Submillimeter-Wave Superconducting Circuits**

Buijtenorp, B. T., Vollebregt, S., Karatsu, K., Thoen, D. J., Murugesan, V., Kouwenhoven, K., Hähnle, S., Baselmans, J. J. A. & Endo, A., 2022, In: *Physical Review Applied*. 18, 6, 7 p., 064003.

### **Low-loss a-SiC: H for superconducting microstrip lines for (sub-)millimeter astronomy**

Buijtenorp, B., Endo, A., Karatsu, K., Thoen, D. J., Murugesan, V., Kouwenhoven, K., Hähnle, S., Baselmans, J. & Vollebregt, S., 2022. 1 p.

### **Model and Measurements of an Optical Stack for Broadband Visible to Near-Infrared Absorption in TiN MKIDs**

Kouwenhoven, K., Elwakil, I., Wingerden, J. V., Murugesan, V., Thoen, D. J., Baselmans, J. J. A. & Visser, P. J. D., 2022, In: *Journal of Low Temperature Physics*. 209, 5-6, p. 1249-1257 9 p.

### **Simulating the radiation loss of superconducting submillimeter wave filters and transmission lines using Sonnet em**

Endo, A., Pascual Laguna, A., Hähnle, S., Karatsu, K., Thoen, D. J., Murugesan, V. & Baselmans, J. J. A., 2022, In: *Journal of Astronomical Telescopes, Instruments, and Systems*. 8, 3, 14 p.

### **Ultra-sensitive THz microwave kinetic inductance detectors for future space telescopes**

Baselmans, J. J. A., Facchin, F., Laguna, A. P., Bueno, J., Thoen, D. J., Murugesan, V., Llombart, N. & De Visser, P. J., 2022, In: *Astronomy and Astrophysics*. 665, A17.

### **Direct evidence for Cooper pairing without a spectral gap in a disordered superconductor above $T_c$**

Bastiaans, K. M., Chatzopoulos, D., Ge, J. F., Tromp, W. O., van Ruitenbeek, J. M., de Visser, P. J., Thoen, D. J., Driessen, E. F. C., Klapwijk, T. M. & More Authors, 2021, In: *Science*. 374, 6567, p. 608-+ 4 p.

### **Highly-conformal sputtered through-silicon vias with sharp superconducting transition**

Alfaro Barrantes, J. A., Mastrangeli, M., Thoen, D., Visser, S., Bueno Lopez, J., Baselmans, J. J. A. & Sarro, P. M., 2021, In: *IEEE Journal of Microelectromechanical Systems*. 30, 2, p. 253-261 9 p., 9345777.

### **Phonon-Trapping-Enhanced Energy Resolution in Superconducting Single-Photon Detectors**

De Visser, P. J., De Rooij, S. A. H., Murugesan, V., Thoen, D. J. & Baselmans, J. J. A., 2021, In: *Physical Review Applied*. 16, 3, 034051.

### **Strong reduction of quasiparticle fluctuations in a superconductor due to decoupling of the quasiparticle number and lifetime**

De Rooij, S. A. H., Baselmans, J. J. A., Murugesan, V., Thoen, D. J. & De Visser, P. J., 2021, In: *Physical Review B*. 104, 18, 7 p., L180506.

### **Superconducting Microstrip Losses at Microwave and Submillimeter Wavelengths**

Hähnle, S., Kouwenhoven, K., Buijtendorp, B., Endo, A., Karatsu, K., Thoen, D., Murugesan, V. & Baselmans, J. J. A., 2021, In: *Physical Review Applied*. 16, 1, p. 014019-1 - 014019-8 8 p., 014019.

### **Terahertz Band-Pass Filters for Wideband Superconducting On-chip Filter-bank Spectrometers**

Pascual Laguna, A., Karatsu, K., Thoen, D., Murugesan, V., Buijtendorp, B., Endo, A. & Baselmans, J., 2021, In: *IEEE Transactions on Terahertz Science and Technology*. 11, 6, p. 635-646 12 p.

### **Sub-mm-Wave Superconducting On-Chip Filter Bank for Astronomy**

Pascual Laguna, A., Karatsu, K., Thoen, D. J., Murugesan, V., Endo, A. & Baselmans, J. J. A., 8 Nov 2020, *2020 45th International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz 2020*. IEEE, 1 p. 9370959. (International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz; vol. 2020-November).

### **Wide Band Quasi-Optical System for DESHIMA 2.0 Spectrometer: Beam Pattern Experimental Validation**

Dabironezare, S. O., Karatsu, K., Yates, S., Murugesan, V., Thoen, D. J., Baselmans, J. & Llombart, N., 8 Nov 2020, *2020 45th International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz 2020*. IEEE, 1 p. 9371005. (International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz; vol. 2020-November).

### **Superconducting High-Aspect Ratio Through-Silicon Vias with DC-Sputtered Al for Quantum 3D integration**

Alfaro Barrantes, J., Mastrangeli, M., Thoen, D., Visser, S., Bueno Lopez, J., Baselmans, J. & Sarro, L., Jul 2020, In: *IEEE Electron Device Letters*. 41, 7, p. 1114-1117 4 p.

### **Fabrication of Al-based superconducting high-aspect ratio TSVs for quantum 3D integration**

Alfaro Barrantes, J., Mastrangeli, M., Thoen, D., Bueno Lopez, J., Baselmans, J. & Sarro, L., 1 Jan 2020, *33rd IEEE International Conference on Micro Electro Mechanical Systems, MEMS 2020*. Vol. 2020-January. p. 932-935 4 p. 9056165

### **An Ultra-Wideband Leaky Lens Antenna for Broadband Spectroscopic Imaging Applications**

Hähnle, S., Yurduseven, O., van Berkel, S., Llombart, N., Bueno, J., Yates, S. J. C., Murugesan, V., Thoen, D., Neto, A. & Baselmans, J., 2020, In: IEEE Transactions on Antennas and Propagation. 68, 7, p. 5675-5679 5 p., 9000802.

### **Broadband Quasi-Optical System for On-chip Filter-bank Spectrometer Operating at Sub-mm Wavelengths [VIDEO]**

Dabironezare, S. O., Karatsu, K., Yates, S. J. C., Pascual Laguna, A., Murugesan, V., Thoen, D. J., Endo, A., Baselmans, J. J. A. & Llombart, N., 2020. 1 p.

### **Characterization of low-loss hydrogenated amorphous silicon films for superconducting resonators**

Buijtenorp, B. T., Bueno, J., Thoen, D. J., Sberna, V. M. P. M., Baselmans, J. J. A., Vollebregt, S. & Endo, A., 2020, *Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy X*. Zmuidzinas, J. & Gao, J.-R. (eds.). SPIE, Vol. 11453. p. 459 - 472 114532X. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11453).

### **Combining UV-and Electron beam lithography for superconducting bandpass filters in mm/sub-mm astronomy**

Thoen, D. J., Murugesan, V., Karatsu, K., Pascual Laguna, A., Endo, A. & Baselmans, J. J. A., 2020, *Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy X*. Yokohama, Japan: SPIE, Vol. 11453.

### **DESHIMA on ASTE: On-Sky Responsivity Calibration of the Integrated Superconducting Spectrometer**

Baselmans, J. J. A., Bosma, S., Ikarashi, S., Klapwijk, T. M., Llombart, N., Pascual Laguna, A., Thoen, D. J., de Visser, P. J., Yurduseven, O., Endo, A. & More Authors, 2020, In: Journal of Low Temperature Physics. 199, 1-2, p. 231-239 9 p.

### **Filter-bank for Broadband Sub-mm Wave Superconducting On-chip Spectrometers [VIDEO]**

Pascual Laguna, A., Karatsu, K., Thoen, D. J., Murugesan, V., Endo, A. & Baselmans, J. J. A., 2020. 1 p.

### **On the Design and Performance of Very Large MKID Arrays [VIDEO]**

Yates, S. J. C., Bueno, J., Endo, A., Baryshev, A. M., Ferrari, L., Murugesan, V., Thoen, D. J. & Baselmans, J. J. A., 2020 . 1 p.

### **Simulating the Radiation Loss of Superconducting Submillimeter Wave Filters and Transmission Lines Using Sonnet EM**

Endo, A., Pascual Laguna, A., Hähnle, S., Karatsu, K., Thoen, D. J., Murugesan, V. & Baselmans, J. J. A., 2020, *Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy X*. Zmuidzinas, J. & Gao, J.-R. (eds.). SPIE, Vol. 11453. p. 436 - 447 114532T. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 11453).

### **Suppression of radiation loss in high kinetic inductance superconducting co-planar waveguides**

Hahnle, S., v. Marrewijk, N., Endo, A., Karatsu, K., Thoen, D. J., Murugesan, V. & Baselmans, J. J. A., 2020, In: Applied Physics Letters. 116, 18, 6 p.

### **First light demonstration of the integrated superconducting spectrometer**

Endo, A., Karatsu, K., Bosma, S., Ikarashi, S., Klapwijk, T. M., Llombart, N., Pascual Laguna, A., Thoen, D. J., de Visser, P. J., Yurduseven, O., Baselmans, J. J. A. & More Authors, 2019, In: Nature Astronomy. 3, 11, p. 989-996 8 p.

### **Mitigation of cosmic ray effect on microwave kinetic inductance detector arrays**

Karatsu, K., Endo, A., Bueno, J., De Visser, P. J., Barends, R., Thoen, D. J., Murugesan, V., Tomita, N. & Baselmans, J. J. A., 2019, In: Applied Physics Letters. 114, 3, p. 1-6 6 p., 032601.

### **Wideband on-chip terahertz spectrometer based on a superconducting filterbank**

Endo, A., Karatsu, K., Pascual Laguna, A., Mirzaei, B., Thoen, D. J., Van Marrewijk, N., Bosma, S., Yurduseven, O., Llombart, N., Klapwijk, T. M., Baselmans, J. J. A. & More Authors, 2019, In: Journal of Astronomical Telescopes, Instruments, and Systems. 5, 3, p. 1-9 9 p., 035004.

### **Antenna Coupled MKID Performance Verification at 850 GHz for Large Format Astrophysics Arrays**

Ferrari, L., Yurduseven, O., Llombart, N., Yates, S. J. C., Bueno, J., Murugesan, V., Thoen, D. J., Endo, A., Baryshev, A. M. & Baselmans, J. J. A., 2018, In: IEEE Transactions on Terahertz Science and Technology. 8, 1, p. 127-139 13 p.,

8123515.

#### **Eliminating stray radiation inside large area imaging arrays**

Yates, S. J. C., Doyle, S., Barry, P., Baryshev, A. M., Bueno, J., Ferrari, L., Llombart, N., Murugesan, V., Thoen, D. J., Yurduseven, O. & Baselmans, J. J. A., 2018, *Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy IX*. Zmuidzinas, J. & Gao, J-R. (eds.). SPIE, Vol. 10708. 107081X

#### **Fabrication and performance verification of a 961 pixel Kinetic Inductance Detector system for future space borne observatories 9914-138**

Baselmans, J., Bueno, J., Yurduseven, O., Yates, S., Llombart, N., Murugesan, V., Thoen, D., Baryshev, A., Endo, A., Driessen, E., Neto, A. & More Authors, 2018. 1 p.

#### **Ultrasensitive Kilo-Pixel Imaging Array of Photon Noise-Limited Kinetic Inductance Detectors Over an Octave of Bandwidth for THz Astronomy**

Bueno, J., Murugesan, V., Karatsu, K., Thoen, D. J. & Baselmans, J. J. A., 2018, In: *Journal of Low Temperature Physics*. 193, 3-4, p. 96-102 7 p.

#### **Experimentally simulating the dynamics of quantum light and matter at deep-strong coupling**

Langford, N. K., Sagastizabal, R., Kounalakis, M., Dickel, C., Bruno, A., Luthi, F., Thoen, D. J., Endo, A. & Dicarlo, L., 1 Dec 2017, In: *Nature Communications*. 8, 1, 1715.

#### **Reactive Magnetron Sputter Deposition of Superconducting Niobium Titanium Nitride Thin Films with Different Target Sizes**

Bos, B. G. C., Thoen, D. J., Haalebos, E. A. F., Gimbel, P. M. L., Klapwijk, T. M., Baselmans, J. J. A. & Endo, A., 1 Jun 2017, In: *IEEE Transactions on Applied Superconductivity*. 27, 4, 7752761.

#### **A kilo-pixel imaging system for future space based far-infrared observatories using microwave kinetic inductance detectors**

Baselmans, J. J. A., Bueno, J., Yates, S. J. C., Yurduseven, O., Llombart, N., Karatsu, K., Baryshev, A. M., Ferrarini, L., Endo, A., Thoen, D. J., de Visser, P. J., Janssen, R. M. J., Murugesan, V., Driessen, E. F. C., Coiffard, G., Martin-Pintado, J., Hargrave, P. & Griffin, M., 2017, In: *Astronomy & Astrophysics*. 601, p. 1-16 16 p., A89.

#### **Dielectric deposition for tuning the frequency of THz quantum cascade lasers**

Mirzaei, B., Hayton, D. J., Thoen, D., Gao, J. R., Kao, T. Y., Hu, Q. & Reno, J. L., 2017, *ISSTT 2017 - 28th International Symposium on Space Terahertz Technology*. Mehdi, I. (ed.). ISSTT2017, Vol. 2017-March. 14 p.

#### **Full characterisation of a background limited antenna coupled KID over an octave of bandwidth for THz radiation**

Bueno, J., Yurduseven, O., Yates, S. J. C., Llombart, N., Murugesan, V., Thoen, D. J., Baryshev, A. M., Neto, A. & Baselmans, J. J. A., 2017, In: *Applied Physics Letters*. 110, 23, 233503.

#### **Performance of THz Components Based on Microstrip PECVD SiN<sub>x</sub> Technology**

Finkel, M., Thierschmann, H., Galatro, L., Katan, A. J., Thoen, D. J., de Visser, P. J., Spirito, M. & Klapwijk, T. M., 2017, In: *IEEE Transactions on Terahertz Science and Technology*. 7, 6, p. 765-771 7 p.

#### **Proof-of-Concept Demonstration of Vector Beam Pattern Measurements of Kinetic Inductance Detectors**

Davis, K. K., Jellema, W., Yates, S. J. C., Ferrari, L., Baselmans, J. J. A., Kohno, K., Thoen, D., Murugesan, V. & Baryshev, A. M., 2017, In: *IEEE Transactions on Terahertz Science and Technology*. 7, 1, p. 98-106 9 p.

#### **Superconducting NbTiN Thin Films with Highly Uniform Properties over a Ø 100 mm Wafer**

Thoen, D. J., Bos, B. G. C., Haalebos, E. A. F., Klapwijk, T. M., Baselmans, J. J. A. & Endo, A., 2017, In: *IEEE Transactions on Applied Superconductivity*. 27, 4, p. 1-5 5 p., 1500505.

#### **Surface Wave Control for Large Arrays of Microwave Kinetic Inductance Detectors**

Yates, S. J. C., Baryshev, A. M., Yurduseven, O., Bueno, J., Davis, K. K., Ferrari, L., Jellema, W., Llombart, N., Murugesan, V., Thoen, D. J. & Baselmans, J. J. A., 2017, In: *IEEE Transactions on Terahertz Science and Technology*. 7, 6, p. 789-799 11 p., 8093770.

### **Branchline and directional THz coupler based on PECVD SiNx-technology**

Finkel, M., Thierschmann, H. R., Galatro, L., Katan, A. J., Thoen, D. J., Visser, P. J. D., Spirito, M. & Klapwijk, T. M., 1 Dec 2016, *41st International Conference on Infrared, Millimeter, and Terahertz waves, IRMMW-THz 2016*. Jepsen, P. U. (ed.). Piscataway, NJ: IEEE, p. 1-2 2 p.

### **Photon noise limited performance over an octave of bandwidth of kinetic inductance detectors for sub-millimeter astronomy**

Bueno, J., Yurduseven, O., Yates, S. J. C., Llombart Juan, N., Murugesan, V., Thoen, D. J., Baryshev, A. M., Neto, A. & Baselmans, J. J. A., 1 Dec 2016, *41st International Conference on Infrared, Millimeter, and Terahertz waves (IRMMW-THz)*. IEEE, p. 1-2 2 p.

### **Frequency Tuning of Third-Order Distributed Feedback Terahertz Quantum Cascade Lasers by SiO<sub>2</sub> and PMMA**

Mirzaei, B., Hayton, D. J., Thoen, D., Gao, J. R., Kao, T. Y., Hu, Q. & Reno, J. L., 1 Nov 2016, In: *IEEE Transactions on Terahertz Science and Technology*. 6, 6, p. 851-857 7 p., 7590158.

### **Probing the Nuclear Spin-Lattice Relaxation Time at the Nanoscale**

Wagenaar, J. J. T., Den Haan, A. M. J., De Voogd, J. M., Bossoni, L., De Jong, T. A., de Wit, M., Bastiaans, K. M., Thoen, D. J., Endo, A., Klapwijk, T. M., Zaanen, J. & Oosterkamp, T. H., 15 Jul 2016, In: *Physical Review Applied*. 6, 1, p. 1-8 8 p., 014007.

### **Performance of a 961 pixel kinetic inductance detector system for future space borne observatories**

Baselmans, J., Bueno, J., Yurduseven, O., Llombart, N., Murugesan, V., Thoen, D., Baryshev, A. & Neto, A., 2016, *41st International Conference on Infrared, Millimeter, and Terahertz Waves, IRMMW-THz*. Jepsen, P. U. (ed.). Piscataway, NJ: IEEE, p. 1-1 1 p.

### **Superconducting coplanar waveguide filters for submillimeter wave on-chip filterbank spectrometers**

Endo, A., Yates, S.J.C., Bueno, J., Thoen, D.J., Murugesan, V., Baryshev, A.M., Klapwijk, T.M., van der Werf, P.P. & Baselmans, J.J.A., 2016, In: *Journal of Low Temperature Physics*. 199, p. 1-6 6 p.

### **ON-CHIP FILTER BANK SPECTROSCOPY AT 600-700 GHZ USING NBTIN SUPERCONDUCTING RESONATORS**

Endo, A., Sfiligoj, C., Yates, S.J.C., Baselmans, J.J.A., Thoen, D.J., Javadzadeh, S.M.H., van der werf, P.P., Baryshev, A.M. & Klapwijk, T.M., 2013, In: *Applied Physics Letters*. 103, 3, p. 1-4 4 p.

### **Probing Dynamics of an Electron-Spin Ensemble via a Superconducting Resonator**

Ranjan, V., de Lange, G., Schutjens, R., Debelhoir, T.L., Groen, J.P., Szombati, D.B., Thoen, D.J., Klapwijk, T.M., Hanson, R. & Di Carlo, L., 2013, In: *Physical Review Letters*. 110, 6, p. 1-5 5 p.

### **Development of DESHIMA: a redshift machine based on a superconducting on-chip filterbank**

Endo, A., Baselmans, J.J.A., van der werf, P.P., Knoors, B., Javadzadeh, S.M.H., Yates, S.J.C., Thoen, D.J., Ferrari, L., Baryshev, A.M., Lankwarden, Y.J.Y., de Visser, P.J., Janssen, R.M.J. & Klapwijk, T.M., 2012, *Millimeter, Submillimeter, and Far-Infrared Detectors and Instrumentation for Astronomy VI*. Holland, W. S. & Zmuidzinas, J. (eds.). s.l.: SPIE, p. 1-15 15 p.

### **Intermediate frequency band digitized high dynamic range radiometer system for plasma diagnostics and real-time Tokamak control**

Bongers, W.A., van Beveren, V., Thoen, D.J., Nuij, P.J.W.M., de Baar, M.R., Donne, A.J.H., Westerhof, E., Goede, A.P.H., Krijger, B., van den Berg, M.A., Kantor, M., Graswinckel, M.F., Hennen, B.A. & Schuller, F.C., 2011, In: *Review of Scientific Instruments*. 82, 6, p. 1-15 15 p.

### **Utilization of collinear ECE detection/ECRH heating for active stabilization of plasma instabilities**

Bongers, W. A., Kasperek, W., Donné, A. J. H., Goede, A. P. H., De Baar, M. R., Schüller, F. C., Erckmann, V., Amerongen, F. J., Thoen, D. J. & More Authors, 30 Nov 2010, *IRMMW-THz 2010 : 35th International Conference on Infrared, Millimeter, and Terahertz Waves conference guide*. IEEE, p. 1-4 4 p. 5612937

**Control of tearing modes in a tokamak using a line-of-sight electron cyclotron emission diagnostic**

Hennen, B. A., Westerhof, E., Nuij, P. W. J. M., Oosterbeek, J. W., De Baar, M. R., Bongers, W. A., Bürger, A., Thoen, D. J. & Steinbuch, M., 2010, *37th EPS Conference on Plasma Physics 2010, EPS 2010*. Elsevier, Vol. 1. p. 117-120 4 p. 03.109

**Strong scattering of high power millimeter waves in tokamak plasmas with tearing modes**

Westerhof, E., Nielsen, S. K., Oosterbeek, JW., Salewski, M., De Baar, M. R., Bongers, W. A., Bürger, A., Hennen, B. A., Korsholm, S. B., Thoen, D. & More Authors, 2009, In: *Physical Review Letters*. 103, 12, 1 p., 125001.