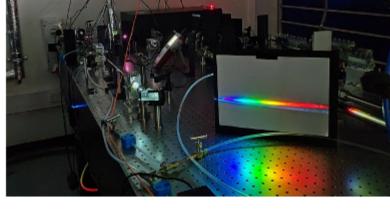
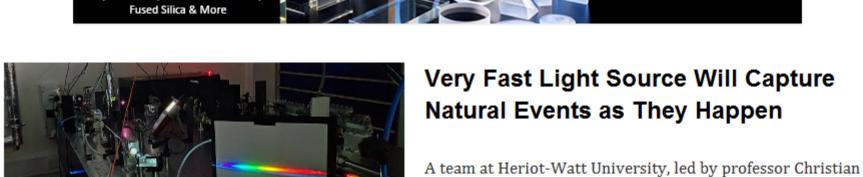


### **Weekly News**





# Natural Events as They Happen



absorption in photosynthesis in attoseconds. Read Article



Microsoft Partners Post Quantum

In collaboration with Microsoft, quantum computing

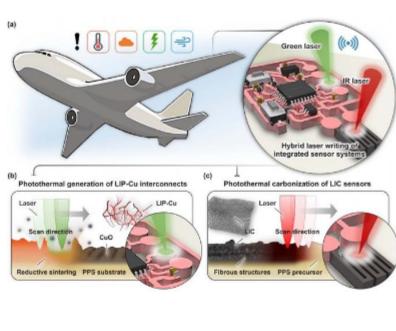
the newly updated 56-qubit System Model H2 quantum

Milestones

pulses that will enable scientists to observe some of the fastest processes in the natural world as they occur. The new laser light source will capture natural processes like light

Brahms, is developing a light source for extremely fast laser

## Laser Writing Integrates Sensors on Material to Manage Equipment Safety



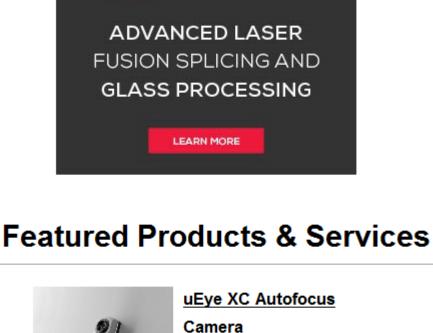
computer, representing a 3× advance over the four logical qubits the companies announced in April. Read Article

developer Quantinuum has demonstrated 12 logical qubits on

# A hybrid laser direct writing technique, developed by researchers at Zhejiang University, integrates sensor systems

directly into engineering thermoplastics by incorporating functional copper interconnects, carbon-based temperature sensors, and signal processing components all within one system. The integrated sensor system allows for real-time temperature monitoring over extended periods to ensure optimal performance and reliability of critical equipment. READY? STEADY. GO!!!

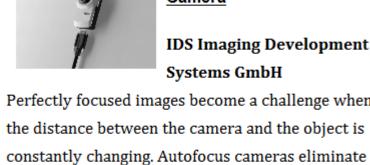
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# IDS Imaging Development

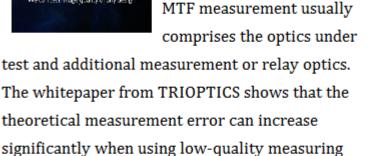


Systems GmbH Perfectly focused images become a challenge when

objects or labels are always perfectly visible. This benefits applications such as robot systems, hand scanners, or passport photo terminals. IDS Imaging Development Systems offers customers a webcamlike camera in industrial quality as well as a tiny autofocus camera that weighs just 12 grams. Visit Website Request Info Looking for something else? Check the Photonics

the need for manual refocusing and ensure that

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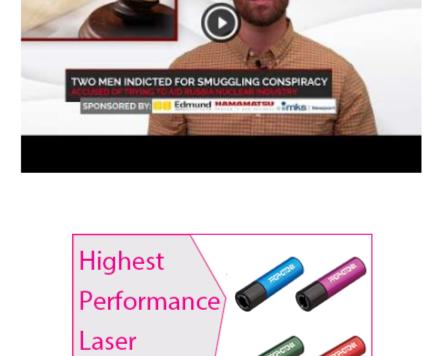
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How to Measure MTF Most

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### Smuggle Laser Welding Systems into Russian Nuclear Plant A Massachusetts man is among two people indicted on

Two Men Accused of Plotting to

Novanta

charges of smuggling and conspiracy, and Mobileye is shutting

down its lidar development programs. All this and more in

this episode of Photonics Spectra Now.

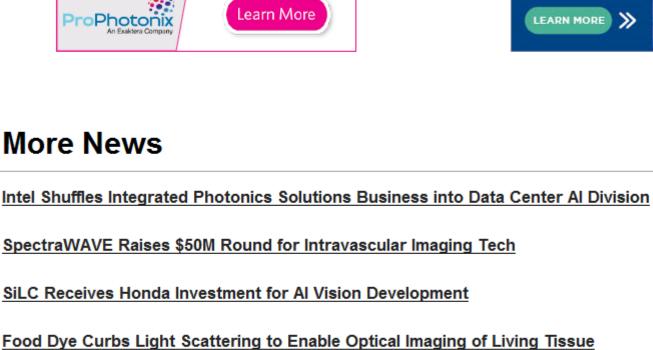
Laser

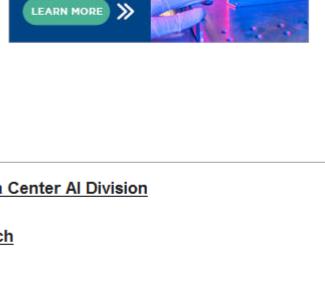
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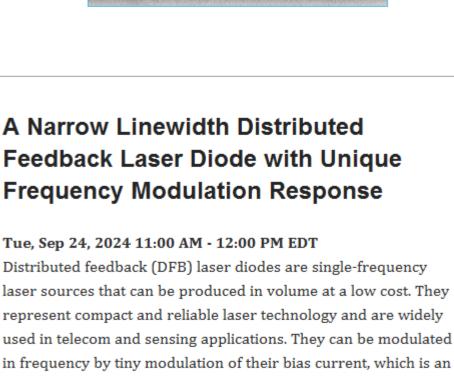
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attractive feature for any photonic system taking advantage of frequency modulation or frequency locking. In this webinar, Patrice Dionne introduces a new narrow linewidth DFB laser

diode with a unique frequency modulation response. He discusses the classical limitations of DFB laser diodes and

explores the improvements and benefits associated with this innovative new laser through different use cases such as phase

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examples of laser integration. Presented by TeraXion. **Register Now** Retinal Imaging with Adaptive Optics **Optical Coherence Tomography** 

and frequency locking loops, linearization of high amplitude frequency chirp, and sudden frequency shifts. He also presents

possibility of using retinal imaging for presymptomatic detection of neurodegenerative and psychiatric diseases.

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vision, blur caused by ocular aberrations of the eye limits resolution. This blur rapidly fluctuates due to a number of factors, such as the impact of the heartbeat. Consequently, it is not possible using conventional methods, such as customized contact lenses, to correct for this blur. This blur can be corrected by using adaptive optics, which is a technique used in astronomy to remove the blurring effect of the atmosphere when acquiring images with ground-based telescopes. When combining adaptive optics with OCT, it is possible to image the structure and function of the retina at the single-cell level. This technology is revolutionizing the early detection of retinal disease. Given that the retina is a window to the brain, this ability opens the Register Now

When imaging the living human eye, even if a person has perfect

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