Thursday, December 26, 2024

PHOTONICS spectra

## Weekly News




### Major Development in the Quantum Teleportation of Data, Optimax Discusses Future of 'Space Economy'

A new demonstration could be the key to a quantum internet. How teleportation is involved. Starris: Optimax Space Systems is sharing new details on their deal with the Lawrence Livermore National Laboratory along with the future of the 'space economy.' New details on a partnership between Focused Energy and Amplitude. And could Santa Claus turn to AI for a quick solution to his 'naughty or nice' list? These stories and more on *Photonics Spectra* Now. Sponsored by scia Systems and TRIOPTICS.

Watch Now

### Dual Lasers Lead to High-Energy LPA and View of Laser-Plasma Interaction

Scientists at Lawrence Berkeley National Laboratory used lasers and a supersonic sheet of gas to accelerate a high-quality beam of electrons to 10 billion electronvolts in just 30 cm. The energy and quality of the beam is a significant improvement compared to previous efforts. Read Article

### Quantum Teleportation Demonstrated Over Busy Internet Cables

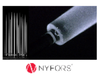
Researchers from Northwestern University have successfully demonstrated quantum teleportation over a fiber optic cable already carrying internet traffic. The work introduces the new possibility of combining quantum communication with existing internet cables — greatly simplifying the infrastructure required for advanced sensing technologies or quantum computing applications. Read Article

### LLNL and Starris: Optimax Space Systems Partner on Monolithic Telescope Tech

Starris: Optimax Space Systems and Lawrence Livermore National Laboratory (LLNL) have partnered to commercialize LLNL's monolithic telescope technology, accelerating rapid deployment of modular optical designs for high-resolution or high-sensitivity space imagery. Read Article



## Featured Products & Services



**$CO_2$ Laser Glass-Processing**

**NYFORS Teknologi AB**

$CO_2$ laser glass-processing is designed to produce high-power and sensitive photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes. NYFORS also manufactures automated high-precision solutions for fiber preparation, such as stripping, cleaving, recoating, and end-face inspection. NYFORS offers custom workcell automation solutions.

Visit Website | Request Info

**High Performance IBS Coatings**

**Northrop Grumman Synoptics**

Quasi-Rugate thin film designs are optimized for high-power laser applications for ultra-fast through CW applications across the wavelength range of 355 nm to 2200 nm. Each design has a unique refractive index profile specifically tuned to give optimal performance for our customer's applications. Quasi-Rugate design structures have the highest demonstrated Laser Damage Thresholds of any Ion Beam Sputtered films.

Visit Website | Request Info

**Looking for something else? Check the Photonics Marketplace.**

PHOTONICS marketplace

## More News

Viavi Solutions Acquires Inertial Labs

Netherlands Formalizes ChipNL Competence Centre to Drive Semiconductor Innovation

Low-Cost 3D-Printed Device Generates Vortex Beams

Hybrid Material Achieves Fast, Stable Phosphorescent Emission for OLEDs

**Call for Articles**

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazines (*Photonics Spectra*, *BioPhotonics*, and *Vision Spectra*). Please submit an informal 100-word abstract to editorial@Photonics.com, or use our online submission form.