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Web data step-up: German scientists achieved highest data transfer rate ever

By Horacio Araque, Miami Technology Examiner

The Karlsruhe Institute of Technology (KIT) in Germany reported a record breaking data transfer feat. A team, led by physicist Jürg Leuthold, sent 26 terabits (tera = trillions) per second through a laser beam, said a spokesman at the Institute. This rate is equivalent to transmitting the contents of seven-hundred DVDs in a second. The feat was achieved thanks to a new data encryption protocol.

Leuthold, director of the Photonics and Quantum Electronics Institute at KIT, said, "We built an optical processor that takes data and modulates it into a light signal; another optical processor decodes the optical signals once they reach their destination." The scientist added, "transfer rates recorded are impossible to achieve electronically."

The transporting large amounts of data is an increasingly important challenge, the experts stressed. "Internet is dominated by the streaming video, communication networks require bit rates increasing," said Leuthold. The new procedure successfully tested by his team could be a key input into a faster, more accessible and secured Internet. Welcome.

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Horacio Araque

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