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Specialty optical fibers and Its manufacture technology

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Optical silica fiber demonstrated its priority in communications, which make a global village become a reality. It was predicted as a long term and irreplaceable communication technology. However, Internet of anything and big data are requiring the huge bandwidth and challenging the development speed of optical fiber communications. New All-wave fiber makes the O-L band transmission with low loss possible. Broadband optical fiber devices become the bottleneck. New designed active optical fiber with the O-L broadband emission and their 3D printing based manufacture technology are developed to supply the broadband demand and given in this talk.

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