

**Entropy driven up conversion (Technion)**

**code:** ENE-1436

We demonstrate a new method for inducing effective high temperature on the surface while maintaining low bulk temperature. Based on this concept we demonstrate 10-fold up-conversion of optical frequency at 10% efficiency, much higher than ever reported. Additionally, the effective high surface temperature is useful for thermal and chemical processes, where the bulk temperature must remain cooled.

**Contact for more information:**

Gabriel Shemer , +972-4-8294851

---

T - Technion Technology Transfer  
Technion City, Senate Bldg., Haifa 32000, Israel  
Tel. 972-4-829-4851; 972-8325-375  
Fax. 972-4-832-0845