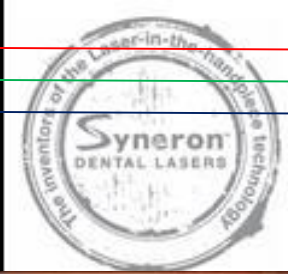


ER: YAG APPLICATION AND ITS BENEFITS BEFORE AND DURING PROSTHODONTIC TREATMENT



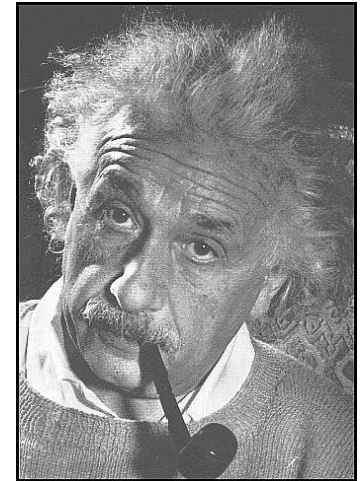
SKOPJE, 2013





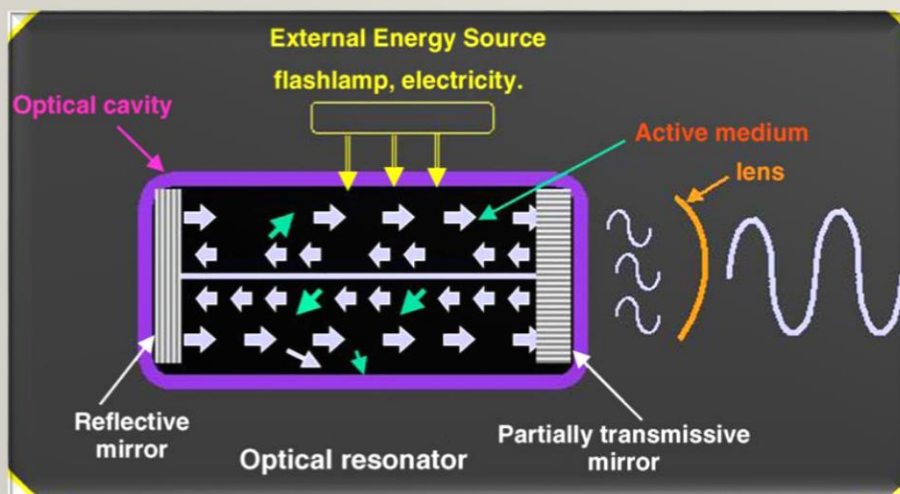
WHAT IS LASER?

Albert Einstein proposed
stimulated emission in 1917



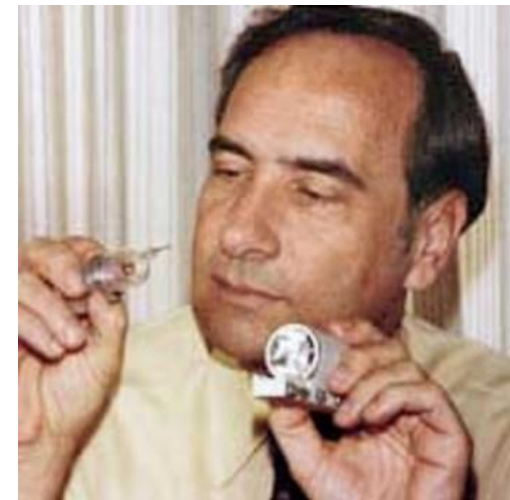
Light
Amplification by
Stimulated
Emission of
Radiation

LASER = ACRONYM



AMPLIFICATION
happens in
Laser Cavity

1. Active medium
2. Pumping mechanism
3. Optical resonator



Theodore Maiman 1960
invented the first² optical laser

Er:YAG LASER EFFECTS ON TISSUE

Physical characteristics of the laser light:

- Reflection, scattering, transmission, absorption

Effects on tissue:

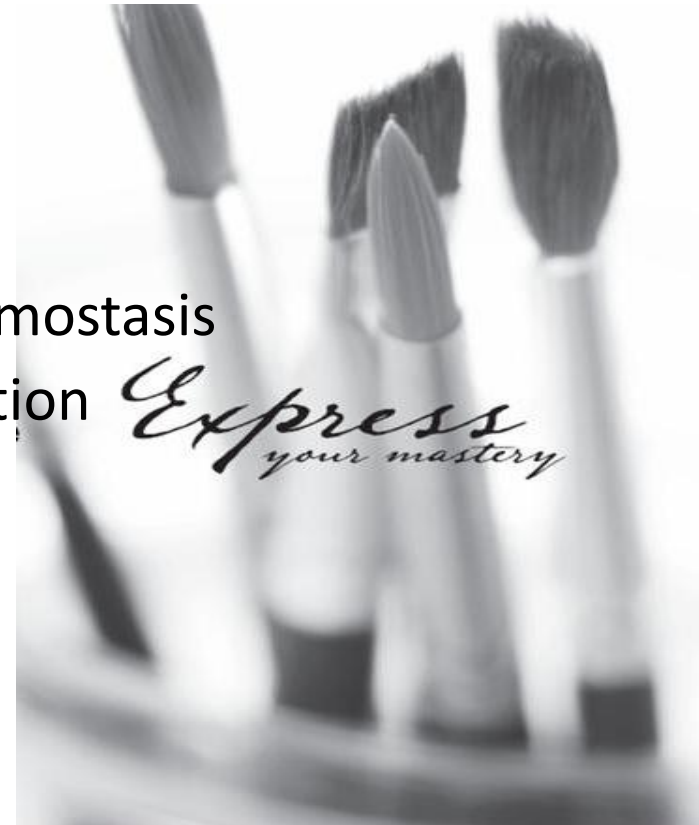
–Photo thermal effects

- Warming
- Coagulation, tissue shrinkage, hemostasis
- Vaporization, ablation, carbonization

–Photo acoustic effect

–Photochemical effects

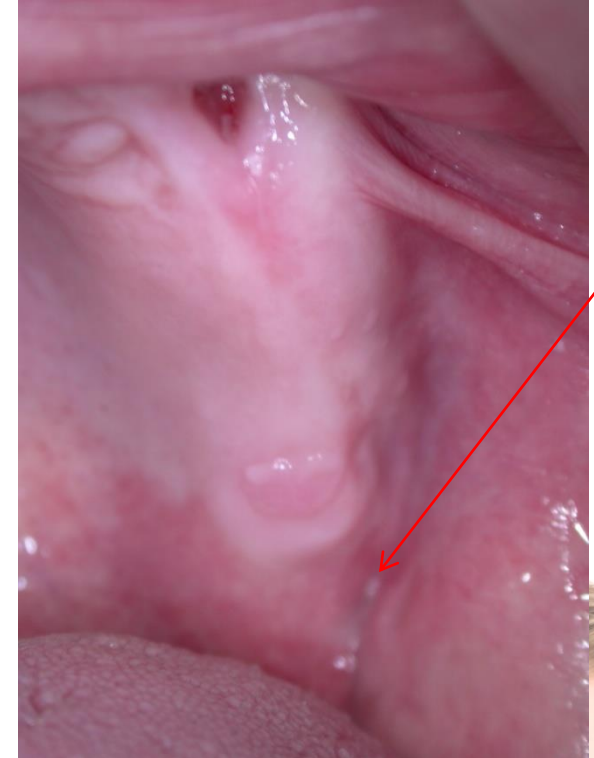
–Biostimulation



SOFT TISSUE in Prosthetics

VESTIBULOPLASTIC

ST 200mJ/20Hz; 0,4 and Chisel Tip, Contact Mode



ETEPHA DENT
CENTAR ZA DENTARNO ZOPRAVLJANJE



FISSURATUM ST 200mJ/20Hz



Be

ys



prosthodontics



FISSURATUM ST 200mJ/20Hz



Be

ys

