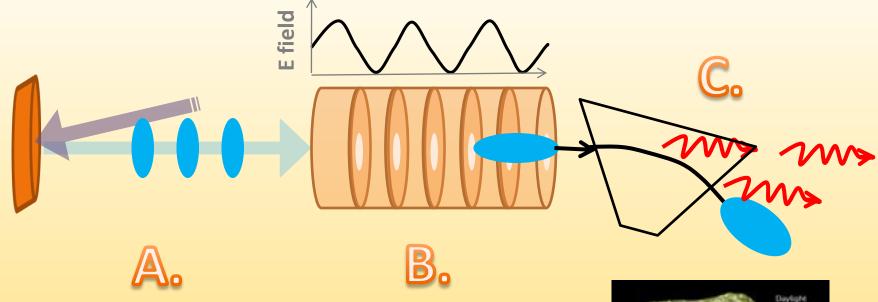


HOW IT WORKS



- A. CHARGED PARTICLES SOURCE
- **B. Accelerating Sections**
- C. INTERACTION REGIONS



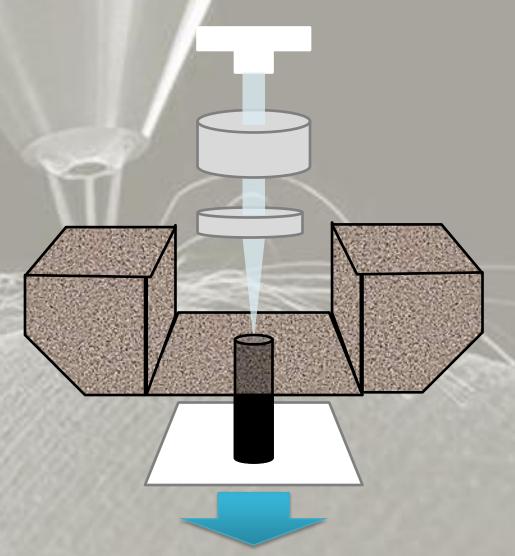
ADDITIVE MANUFACTURING

INDUSTRIAL 3D PRINTING

Electron Beam Melting (EBM)

An electron beam deposits energy on a metallic powderbed, layer by layer

- It builds under void
- → minimal contamination of materials
- optimal for high reflectivity materials such as copper and other metals

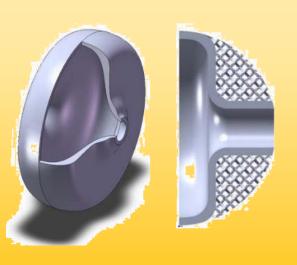


- Thermal management
- Stress management
- Maggiori gradienti acceleranti con
 - a) Cristalli fotonici metallici, dielettrici o misti
 - b) Capillari per accelerazione al plasma

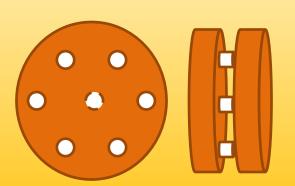


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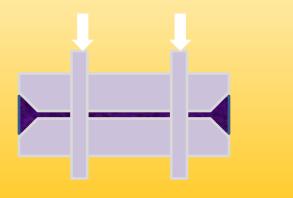
- Thermal management
- Stress management
- Cheaper and more compact acceleration
 - a) Photonics crystals: metallic, dielectric or a mix
 - b) Capillaries for novel acceleration schemes

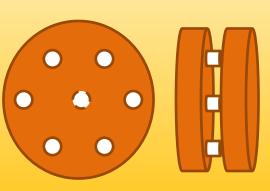






- Thermal management
- Stress management
- Cheaper and more compact acceleration
 - a) Photonics crystals: metallic, dielectric or a mix
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OTHER SINERGIES

3D printed detectors

Substitution of parts on the spot

Rapid prototyping of elements and components

Interaction with open source and makers communities

CONCLUSION

