

FILS

Discipline: Physics II

List of proposed themes for projects

1. Pyrometers
2. Infrared thermography
3. Solar radiation. Photovoltaic systems
4. Applications of the photoelectric effect
5. X-rays and applications
6. The electron microscope
7. Quantum wells
8. The tunnel diode
9. The scanning tunneling microscope
10. Atomic force microscope
11. Nanoscience
12. Quantum computers: physical realization
13. Quantum computation
14. Harmonic oscillator quantum computer
15. Quantum algorithms
16. Quantum cryptography
17. The ruby laser
18. He-Ne laser
19. CO₂ laser
20. Neodymium lasers
21. Ion gas lasers
22. Metal vapor lasers
23. Excimer lasers
24. Dye lasers
25. Chemical lasers
26. Semiconductor lasers
27. Nuclear magnetic resonance