Enabling High Efficiency Low Temperature Combustion by Adaptive In-Situ Jet Cooling

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Leverage the wisdom of Diesel, Otto, and Watt
**Key Enablers:**

1. Dual-fuel injector (dual spray patterns, variable spray angles)
2. Adaptive mixed-mode combustion

**Path:** New jet structure, complete fast lean burn

**Gains:** High Efficiency, Low NOx, PM, HC, CO