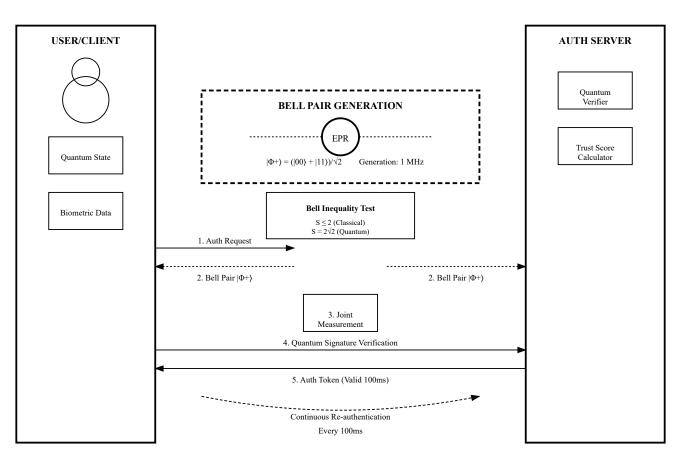
FIGURE 3: ZERO TRUST AUTHENTICATION FLOW WITH BELL PAIR GENERATION



SECURITY PROPERTIES:

- Information-theoretic security
 Authentication strength: >256 bits
- No-cloning theorem protection
- False positive rate: 10^-9
- Forward secrecy
- Man-in-the-middle detection
- Quantum advantage: Unconditional