metatron is **rime's** dual telemetry add-on system and allows the addition of mud pulse capabilities to applied physics em systems. **metatron** is built around the **rime slick-hd** servo pulser and a patent pending extensible hydraulic coupling that enables the use of standard off the shelf tensor style muleshoes and lower ends.

the **metatron** system consists of three separate modules. the first module contains the parts required to allow the sharing of sensor data from the applied physics system to **rime's** products. the second is **rime's** proven and rugged **slick-hd** servo pulser modified with a custom **metatron** chassis that acquires the sensor data, processes the data into mpsk compatible telemetry. The third is **rime's** patent pending hydraulic coupling that allows the applied physics em system to connect hydraulically to a standard tensor style lower end, muleshoe and ubho sub.

metatron embeds a tensor compatible mpu into the **slick-hd** pulser and allows the user to program mud pulse telemetry sequences into the pulser. the **metatron** system transmits data to the surface independently of the em system and can be programmed to transmit redundant data or mud pulse specific data. as all of **metatron's** mud pulse telemetry is mpsk compatible, users can use their existing mud pulse surface systems to reduce system cost.

with continuous firmware and software improvements and ever expanding operational capability, **metatron** provides users with a very cost effective dual telemetry option for their applied physics em systems.

- cost effective dual telemetry add-on

- built around proven **slick-hd** servo pulser

- compatible with applied physics em system

- tensor compatible mud pulse telemetry

- compatible with multiple surface systems

- 175°C 20,000 psi rated

applied physics em dipole

applied physics dgs module

rime adjustable hydraulic coupling

applied physics battery module(s)

rime slick-hd pulser with **metatron** chassis

standard lower end and muleshoe