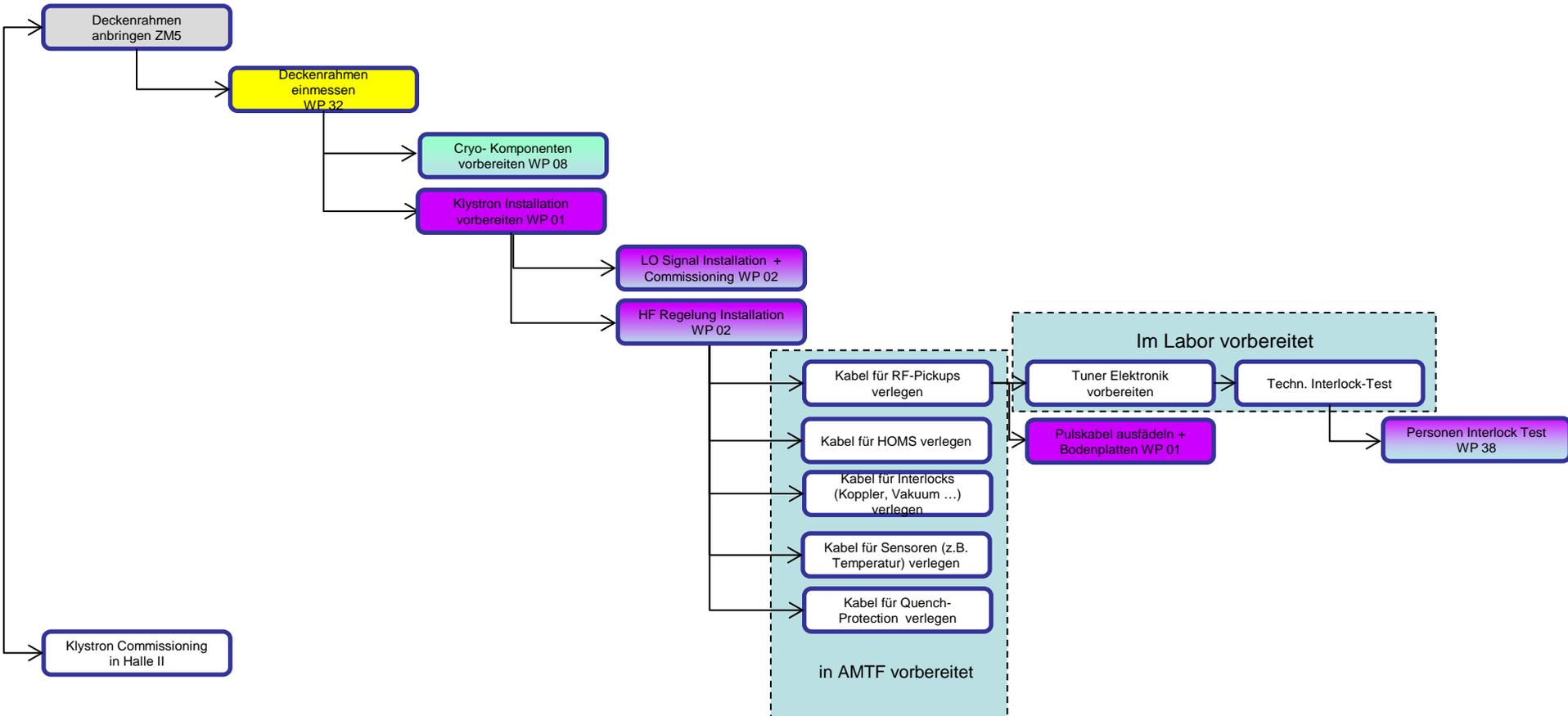
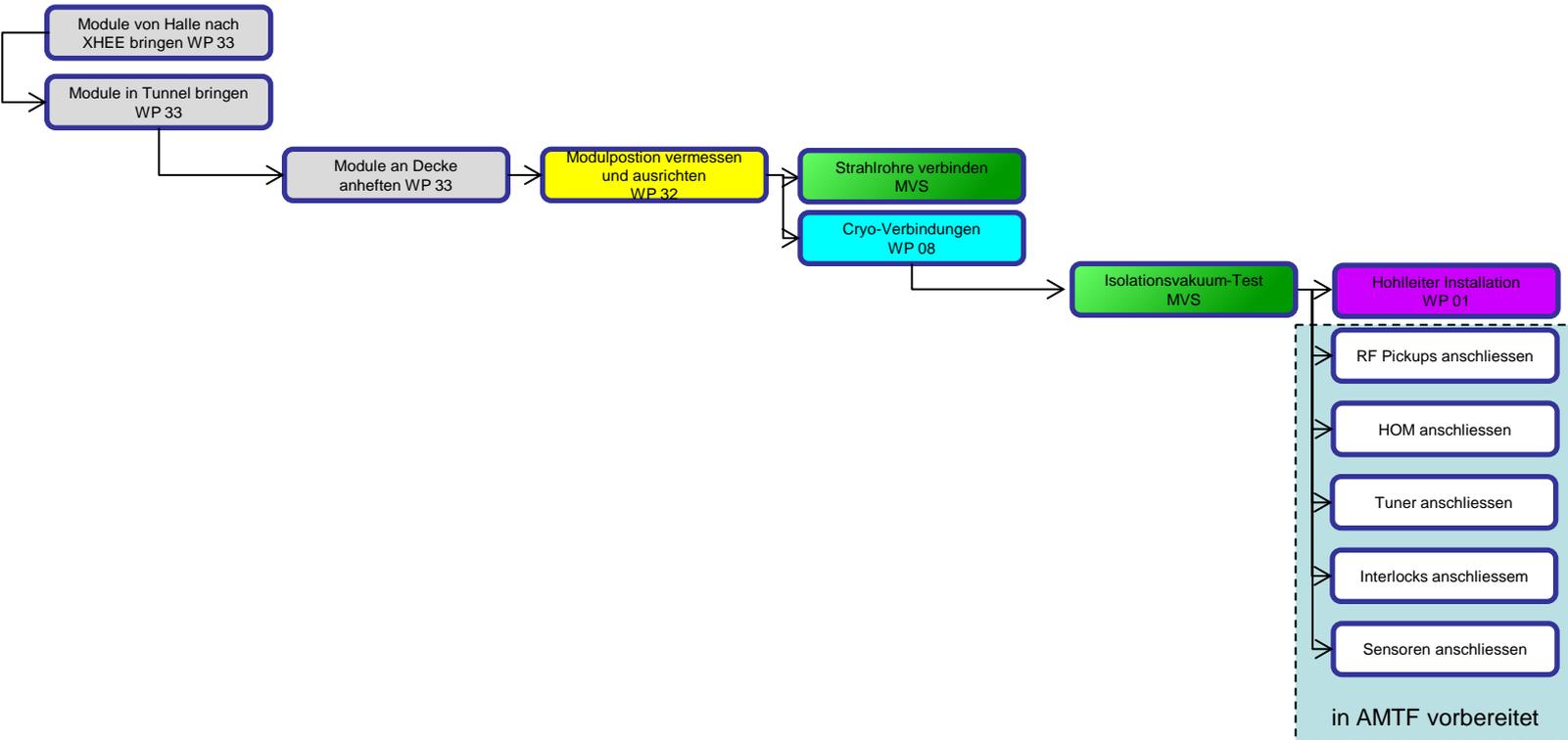


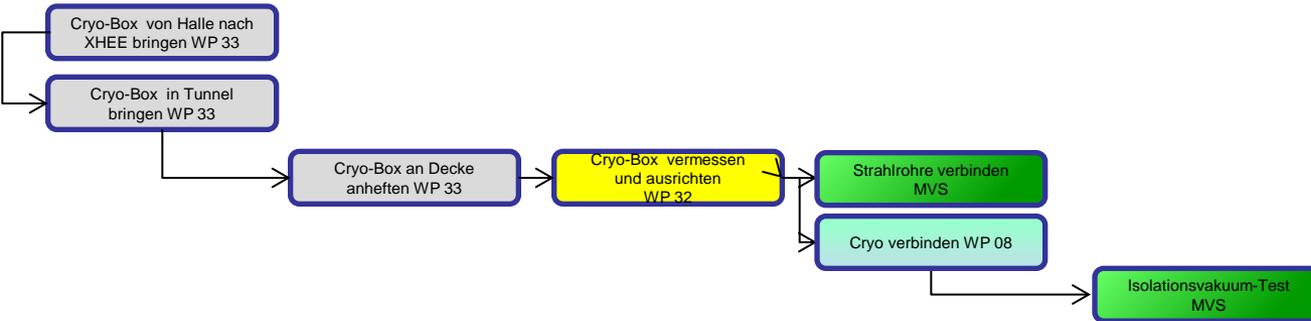
# 1. Preparation im Tunnel und an den Modulen



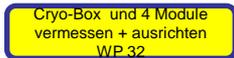
## 2. Module aufhängen



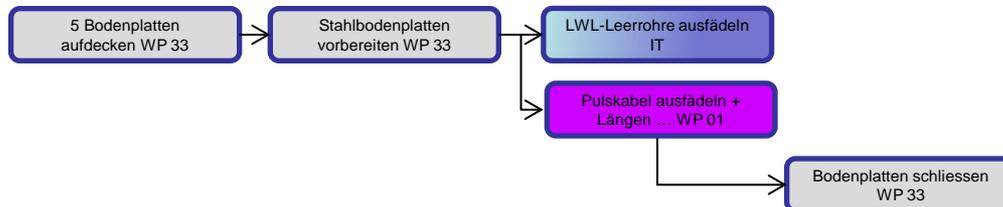
### 3. Cryo-Box aufhängen

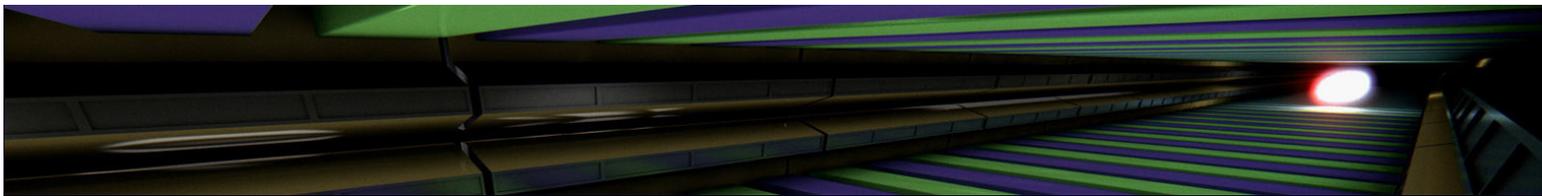


### 4. Vermessung

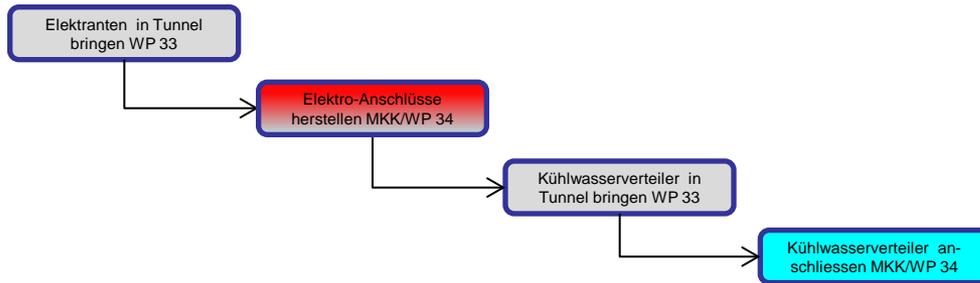


### 5. Bodenplatten vorbereiten und Puls kabel ausfädeln

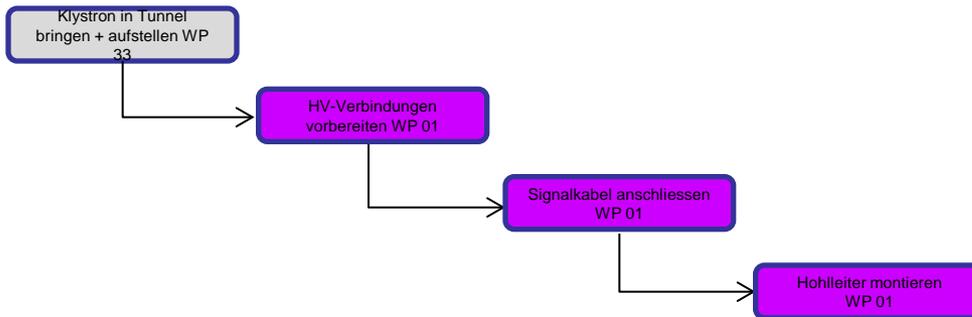


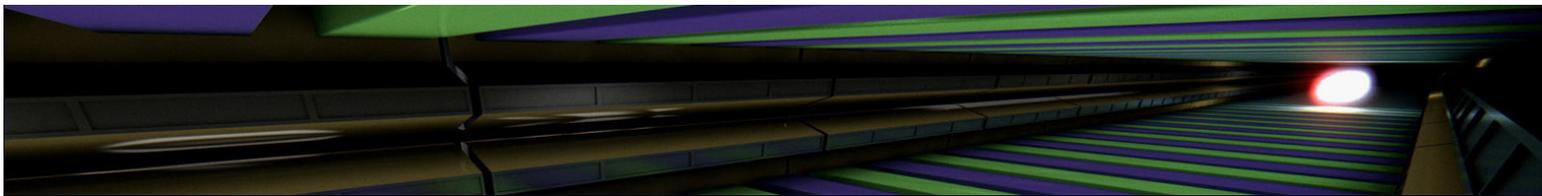


## 6. Elektranten und Unterverteiler

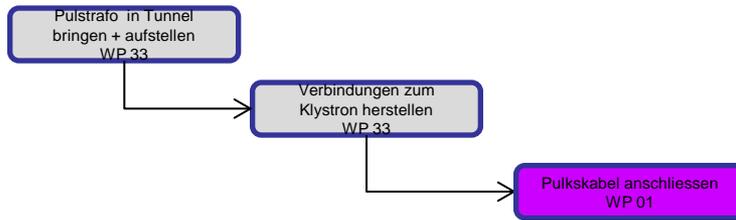


## 7. Klystron installieren

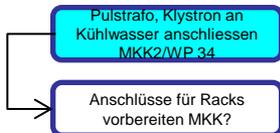




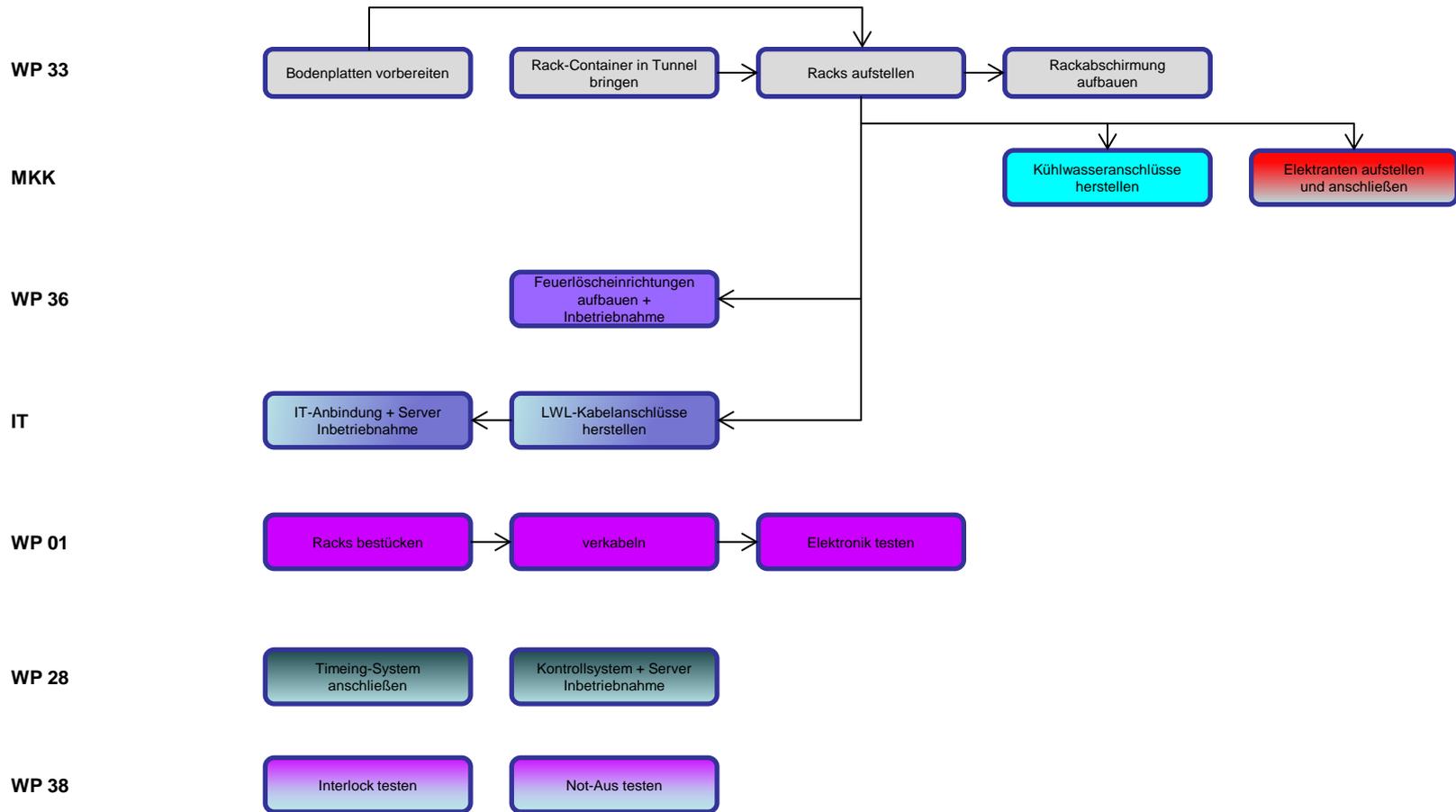
## 8. Pulstrafo



## 9. Kühlwasseranschlüsse

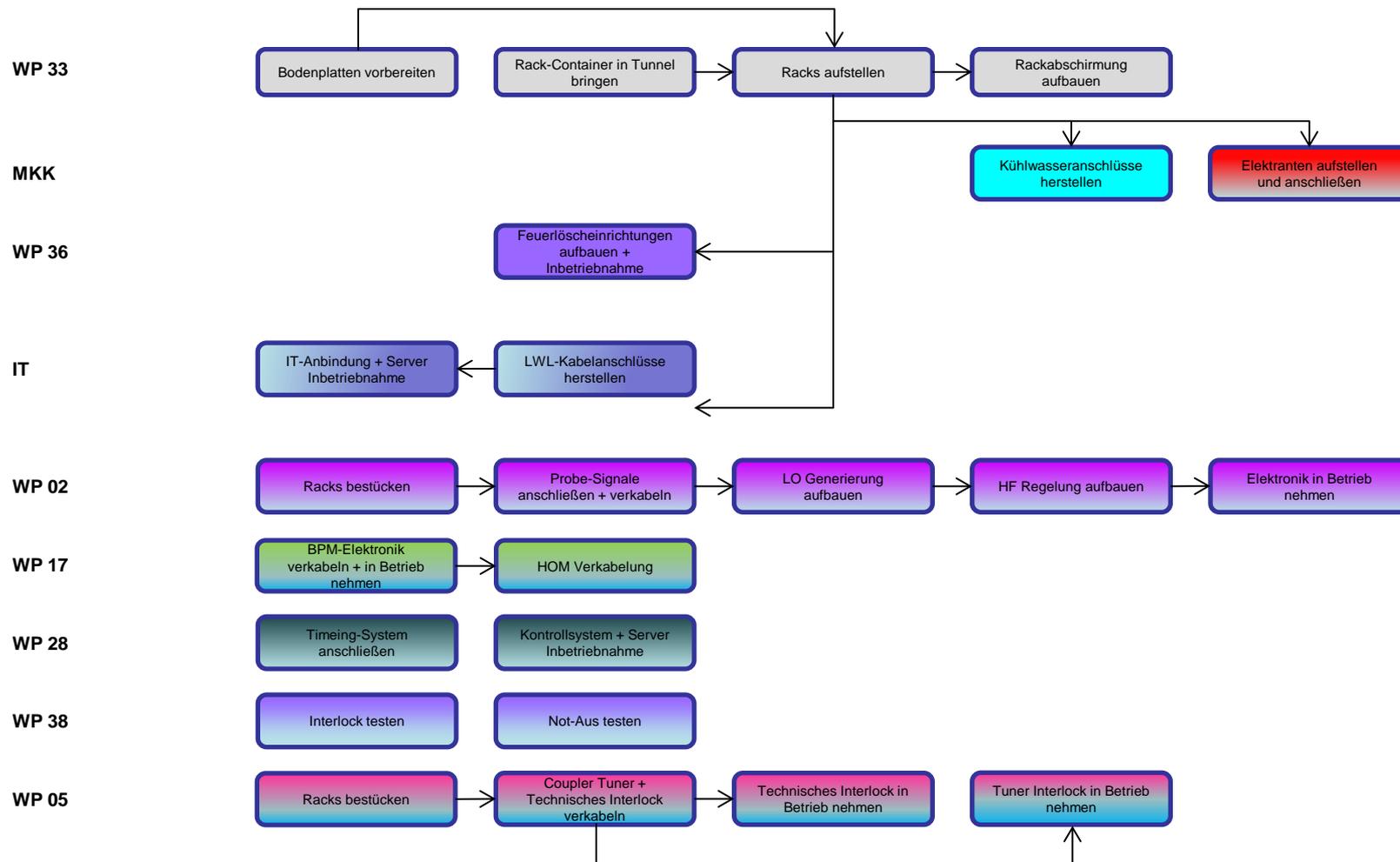


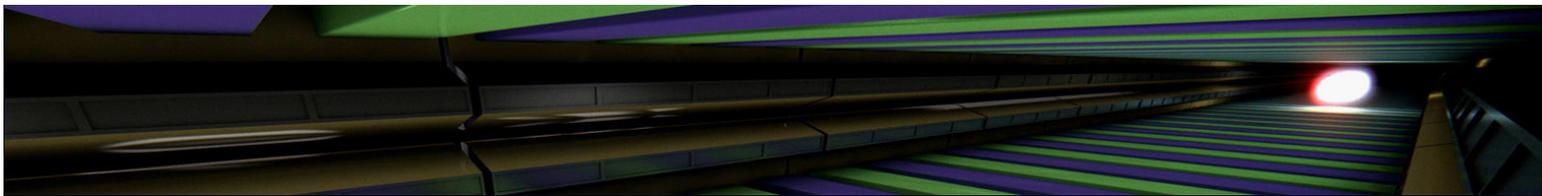
# 10. Schritt: RF-Racks aufstellen



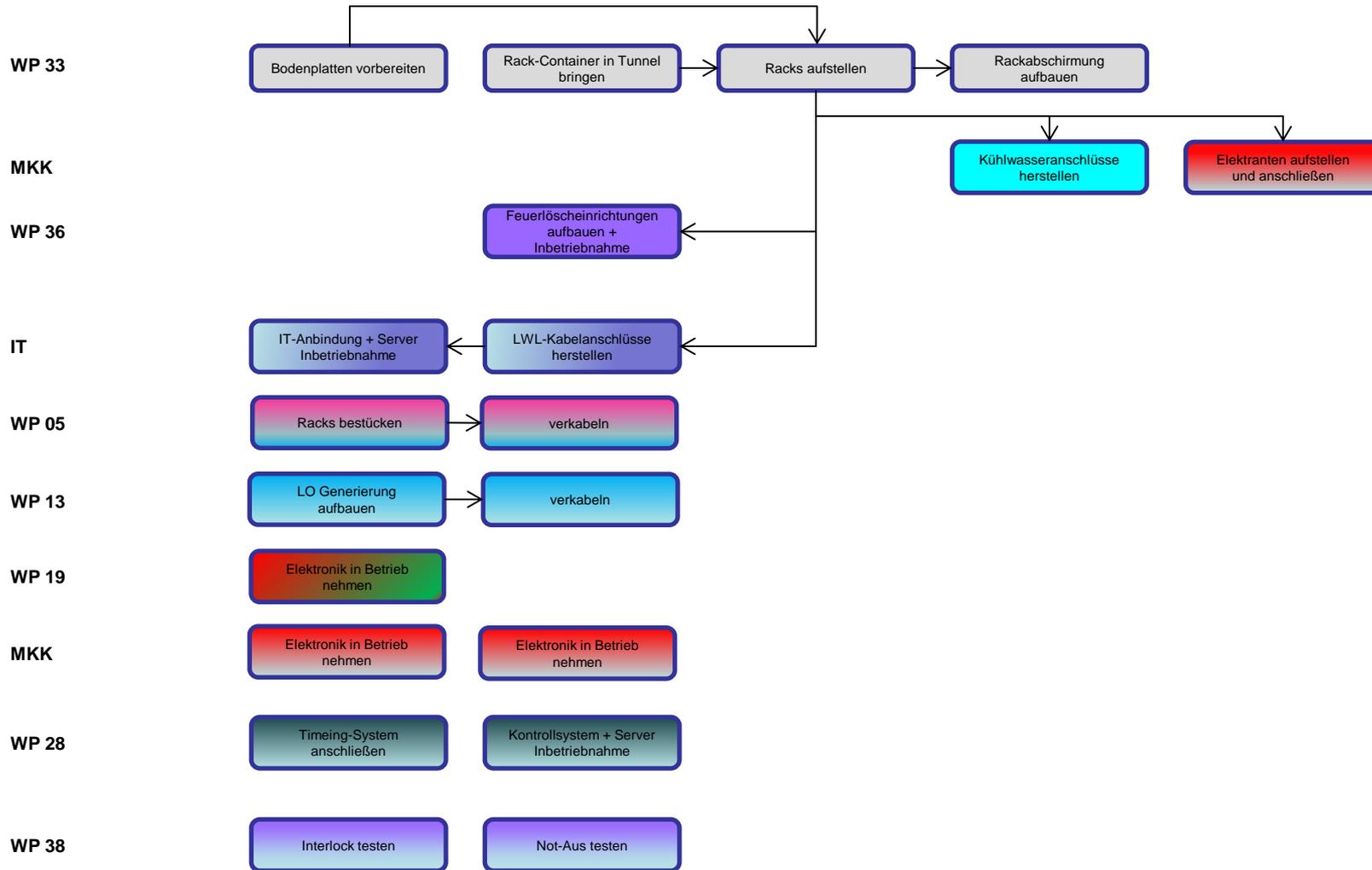


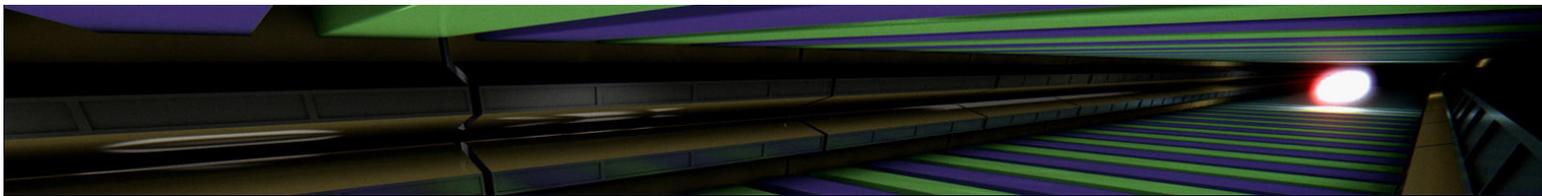
# 11. Schritt: LLRF-Racks aufstellen





## 12. Schritt: Cryo/PS/Vakuum-Racks aufstellen

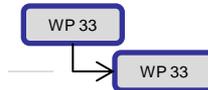




## 13. Schritt: Rackabschirmung aufbauen

Betonsteine in Tunnel bringen

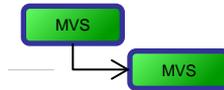
Betonsteine aufbauen



## 14. Schritt: Vakuum-Verbindungen komplettieren

Pumpen anschliessen und  
Inbetriebnahme

Lecksuche

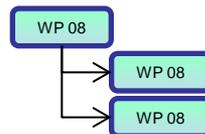


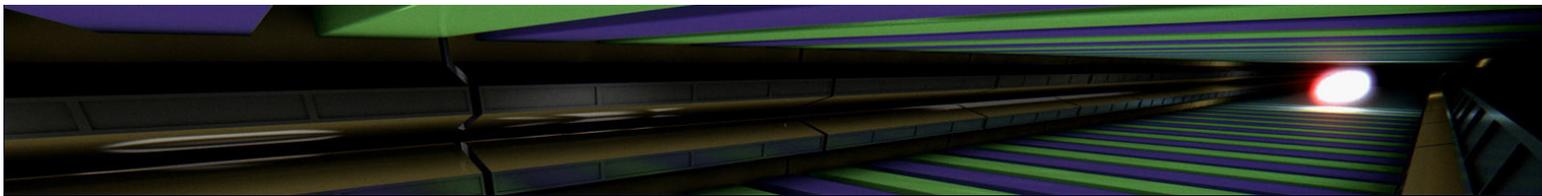
## 15. Schritt: Cryo-Verbindungen komplettieren

Check der IsoVac-Verbindungen

Drucktest

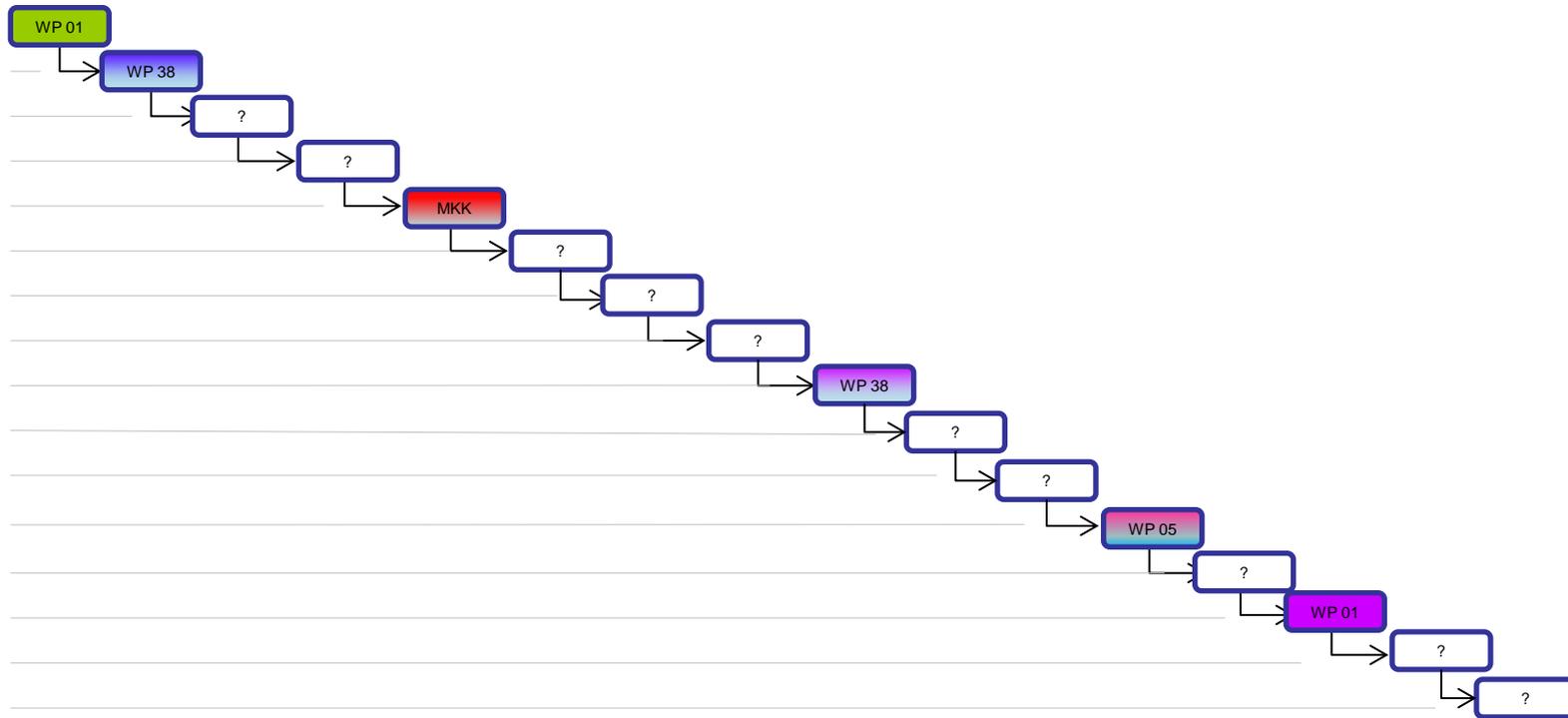
Dichtigkeitstest

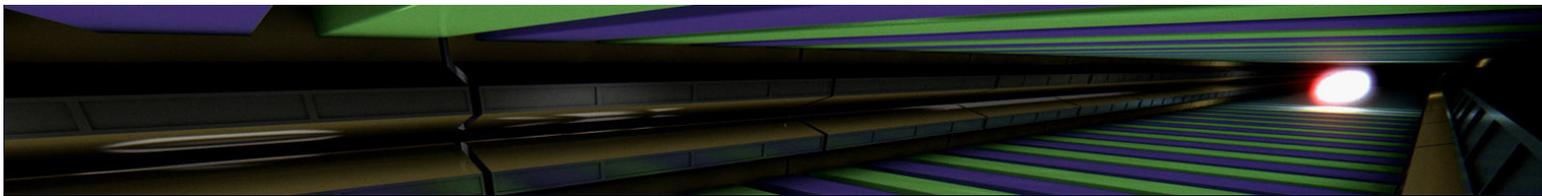




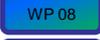
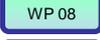
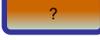
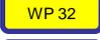
## 16. Schritt: RF-Tests

- Hohlleitungsverbindungen  
komplettieren und testen
- Technisches Interlock  
Inbetriebnahme
- Dummy-Load installieren
- Modulator Inbetriebnahme + Test
- Power RF testen + kalibrieren
- RF-Pickups kalibrieren
- HOMS's kalibrieren
- Tuner kalibrieren
- Interlocks Testen
- Sensoren kalibrieren
- Kontrollsystemanbindung Testen
- Interlock testen
- Warmes Koppler konditionieren
- Cooldown (nicht vor Mitte 2016)
- Kalte RF-Tests
- Fernbedienung aus dem BKR





# Legende

Hohlleiter		Kabelarbeiten allgemein	
RF-System		Strom allgemein	
LLRF-System		Wasser	
Power Coupler		Lüftung	
Power Coupler		Vakuum allgemein	
Kaltes Vakuum		IT-Komponenten	
Cryo		LWL-Kabel	
Standard Beam Diagnostic			
Warmes Vakuum			
Vermessung			
Tunnel Installation			
SAVE			
Personen-Interlock			
Maschinen-Interlock			