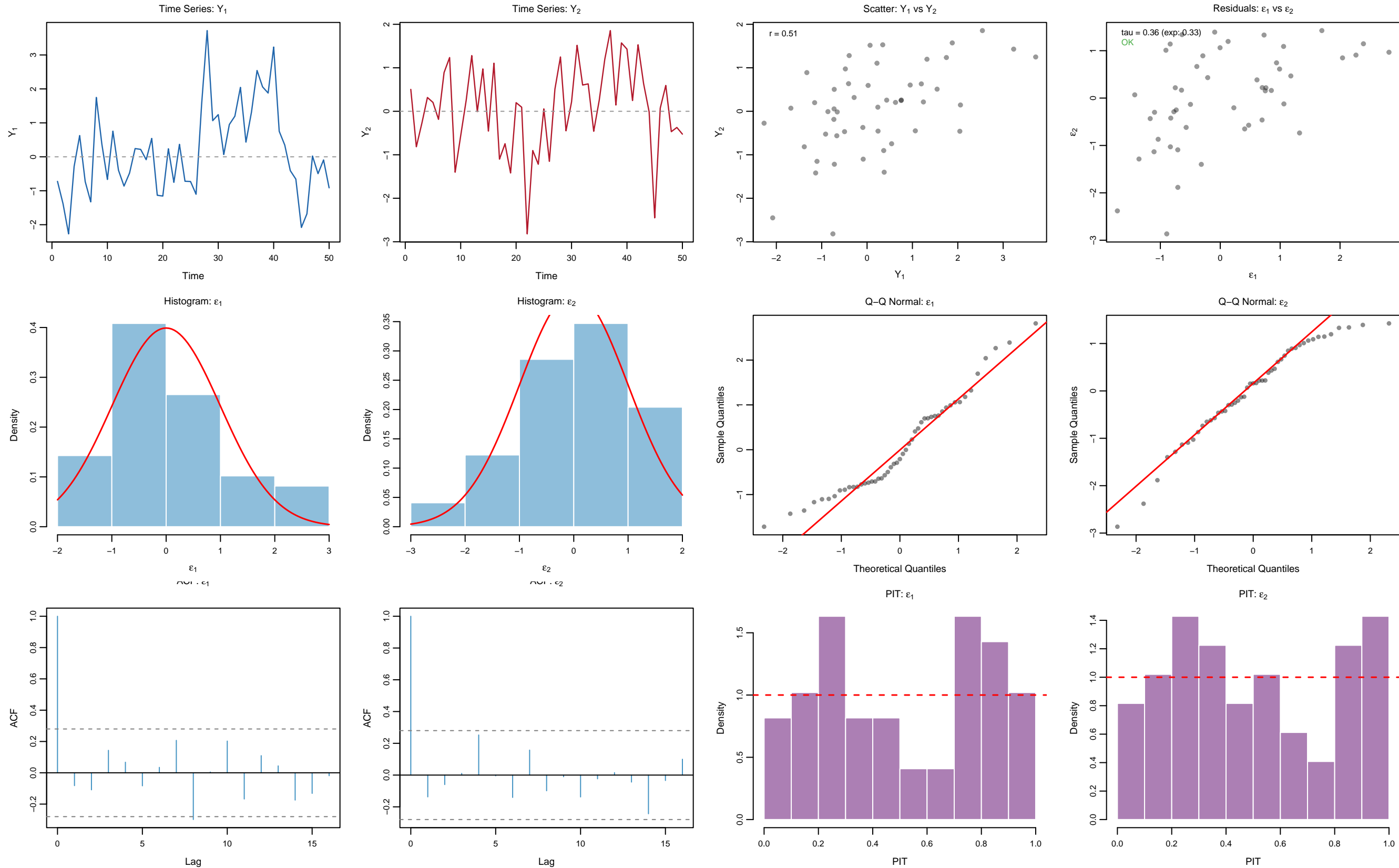# Cond 089: SN(a=+9,−9), T=50, rho=0.50  |  Rep 153



**Summary: $\varepsilon_1$**

Mean: 0.073
SD: 1.089
Skew: 0.595
Kurt: −0.487

**Summary: $\varepsilon_2$**

Mean: 0.023
SD: 1.002
Skew: −0.711
Kurt: 0.122

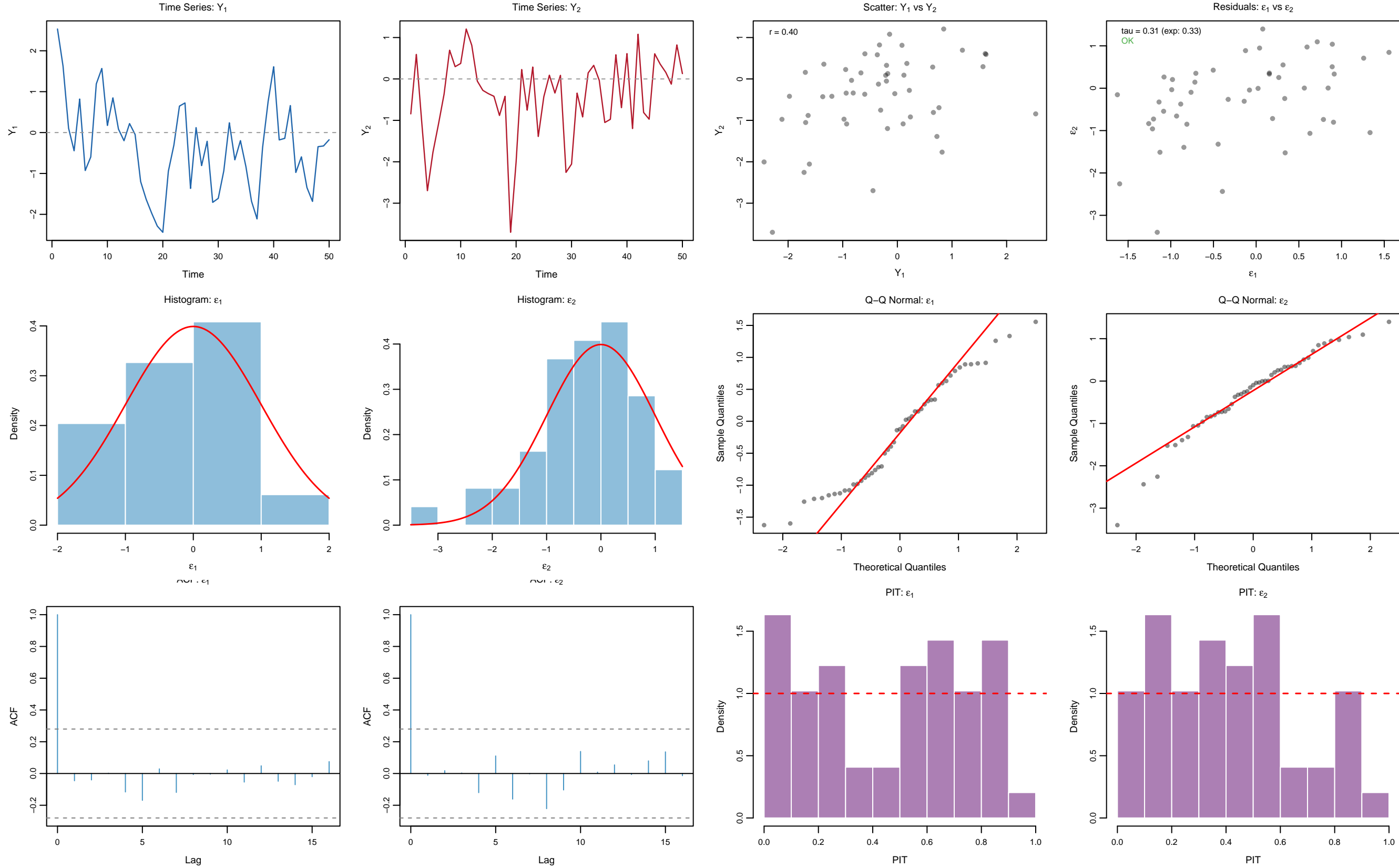**PIT Uniformity (KS)**

PIT1: D=0.124, p=0.406

PIT2: D=0.082, p=0.873

**Copula Verification**

True rho: 0.50
Pearson r: 0.509
Kendall tau: 0.364
Expected tau: 0.333

**Status: OK**

# Cond 089: SN(a=+9,−9), T=50, rho=0.50  |  Rep 182



**Summary: $\varepsilon_1$**

Mean: −0.170
SD: 0.845
Skew: 0.140
Kurt: −1.165

**Summary: $\varepsilon_2$**

Mean: −0.266
SD: 0.968
Skew: −0.858
Kurt: 0.914

**PIT Uniformity (KS)**
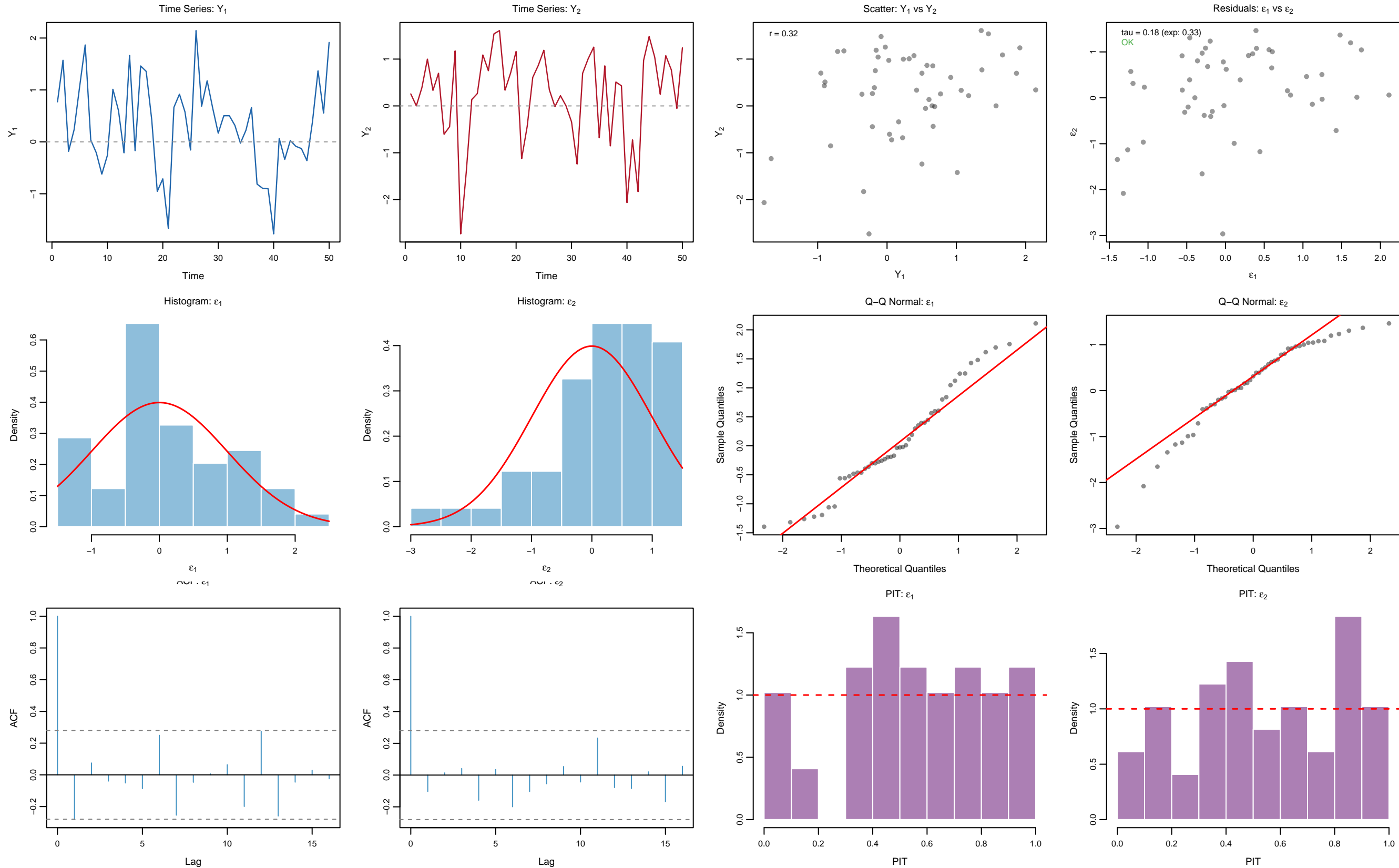
PIT1: D=0.116, p=0.491

PIT2: D=0.210, p=0.023

**Copula Verification**

True rho: 0.50
Pearson r: 0.418
Kendall tau: 0.311
Expected tau: 0.333

**Status: OK**

# Cond 089: SN(a=+9,−9), T=50, rho=0.50  |  Rep 66



## Time Series: $Y_1$

## Time Series: $Y_2$

## Scatter: $Y_1$ vs $Y_2$
r = 0.32

## Residuals: $\varepsilon_1$ vs $\varepsilon_2$
tau = 0.18 (exp: 0.33)
OK

## Histogram: $\varepsilon_1$

## Histogram: $\varepsilon_2$

## Q–Q Normal: $\varepsilon_1$

## Q–Q Normal: $\varepsilon_2$

## ACF: $\varepsilon_1$

## ACF: $\varepsilon_2$

## PIT: $\varepsilon_1$

## PIT: $\varepsilon_2$

### Summary: $\varepsilon_1$

Mean: 0.123
SD: 0.888
Skew: 0.305
Kurt: −0.695

### Summary: $\varepsilon_2$

Mean: 0.153
SD: 0.955
Skew: −1.046
Kurt: 0.919
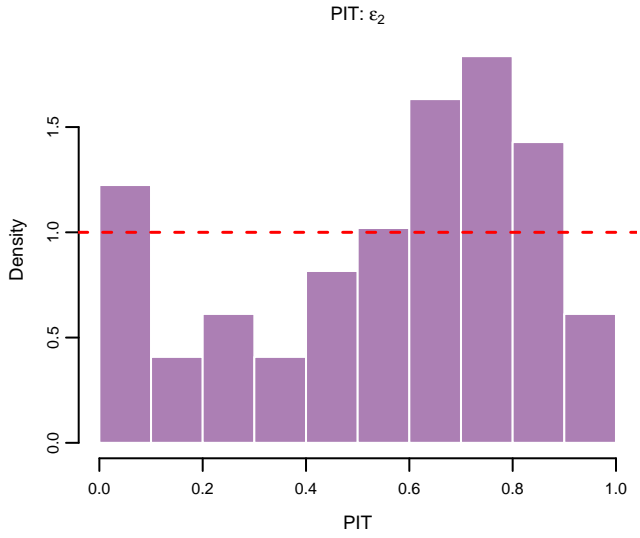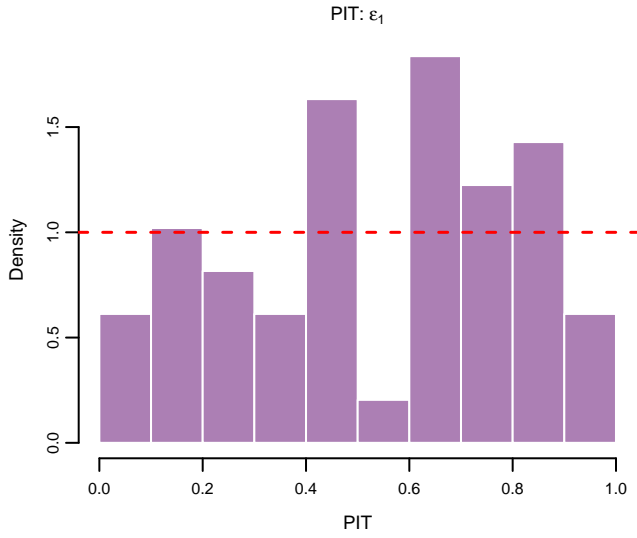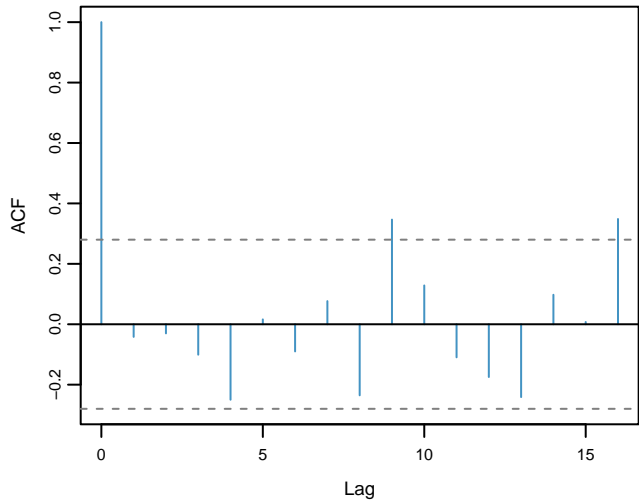
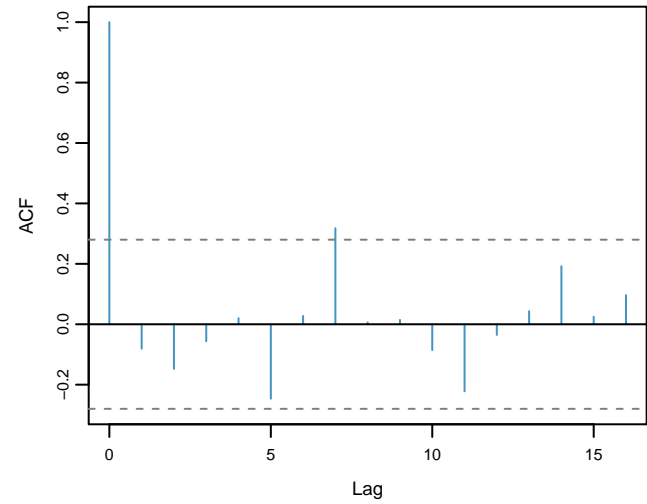### PIT Uniformity (KS)

PIT1: D=0.206, p=0.027

PIT2: D=0.115, p=0.504

### Copula Verification

True rho: 0.50
Pearson r: 0.293
Kendall tau: 0.184
Expected tau: 0.333

**Status: OK**

# Cond 089: SN(a=+9,−9), T=50, rho=0.50  |  Rep 179



**Time Series: $Y_1$**

**Time Series: $Y_2$**

**Scatter: $Y_1$ vs $Y_2$**

r = 0.32

**Residuals: $\varepsilon_1$ vs $\varepsilon_2$**

tau = 0.23 (exp: 0.33)
OK

**Histogram: $\varepsilon_1$**

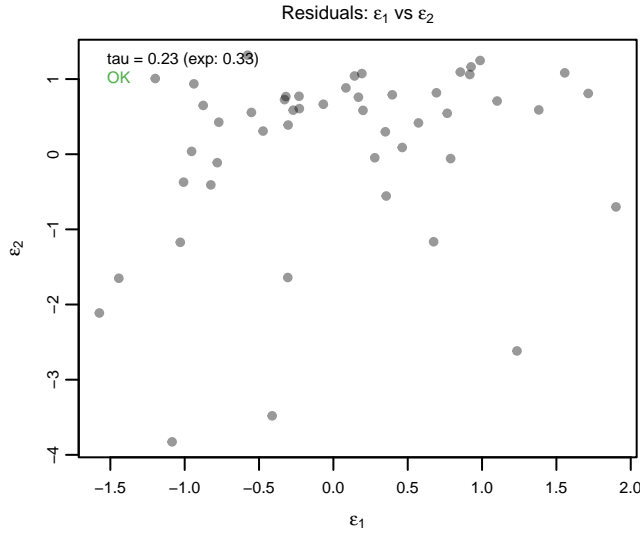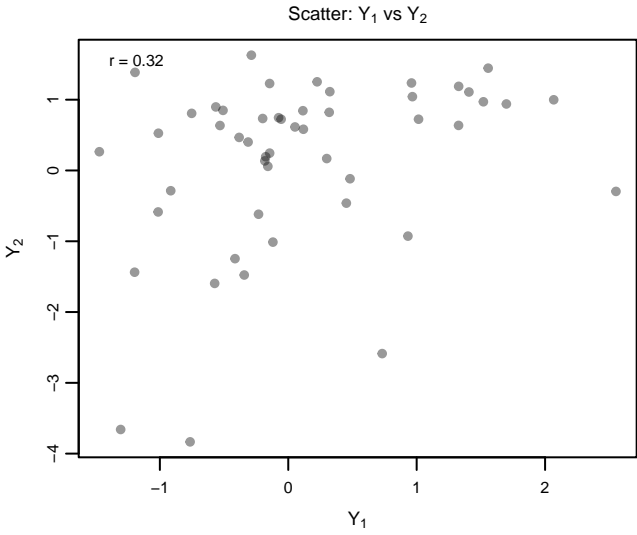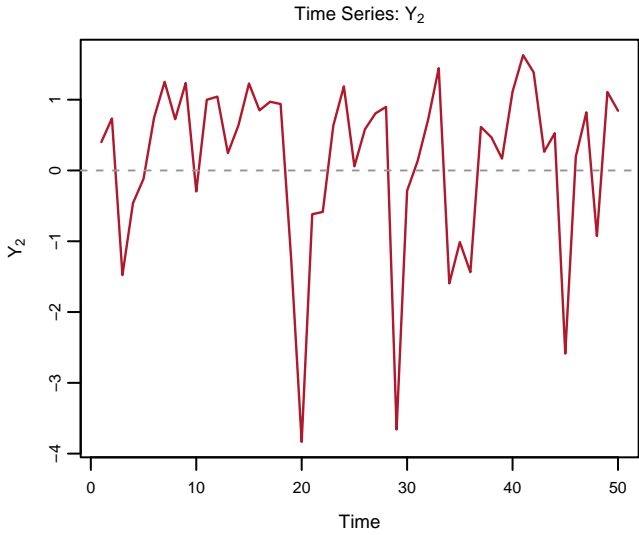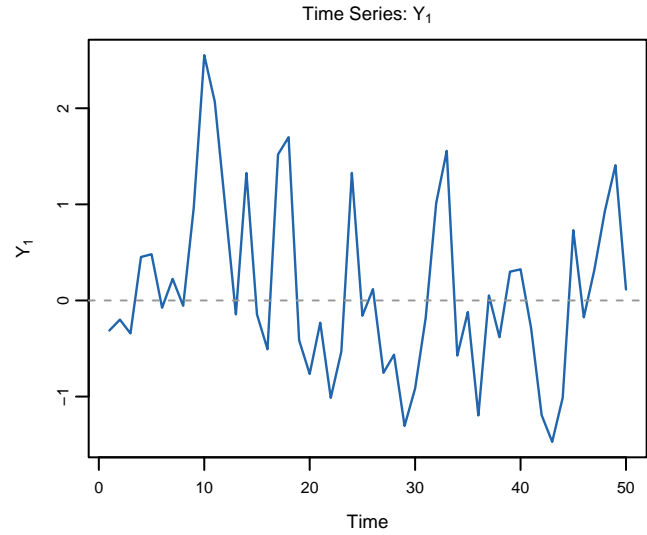**Histogram: $\varepsilon_2$**

**Q–Q Normal: $\varepsilon_1$**

**Q–Q Normal: $\varepsilon_2$**

**ACF: $\varepsilon_1$**

**ACF: $\varepsilon_2$**
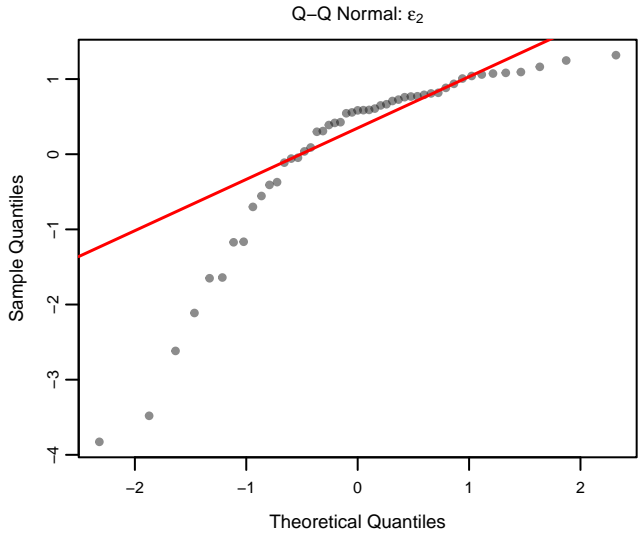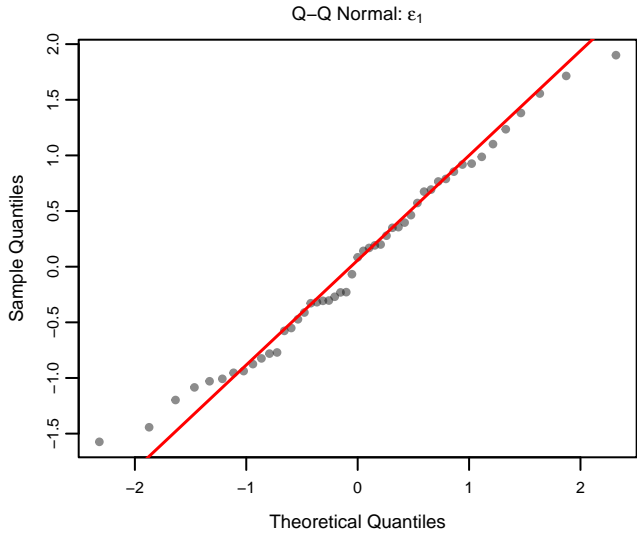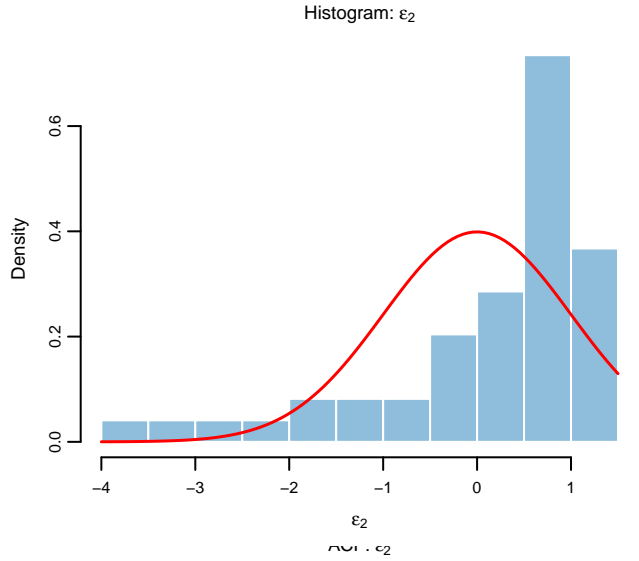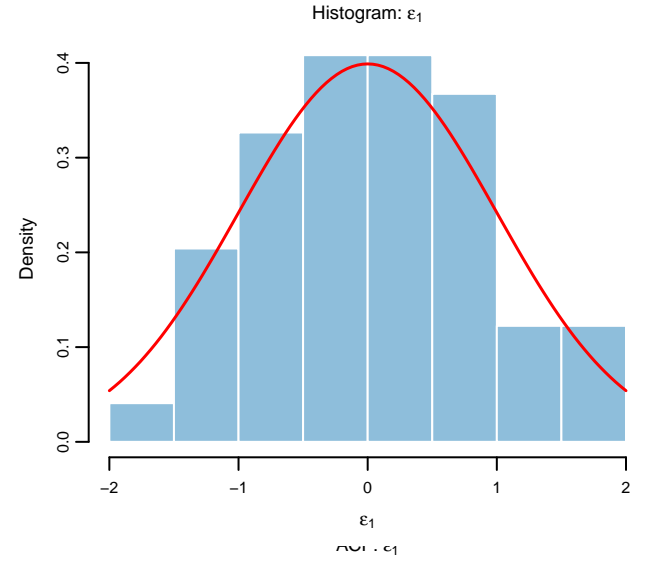
**PIT: $\varepsilon_1$**

**PIT: $\varepsilon_2$**

**Summary: $\varepsilon_1$**

Mean: 0.044
SD: 0.860
Skew: 0.176
Kurt: −0.850

**Summary: $\varepsilon_2$**

Mean: 0.100
SD: 1.192
Skew: −1.670
Kurt: 2.239

**PIT Uniformity (KS)**

PIT1: D=0.120, p=0.443

PIT2: D=0.196, p=0.040

**Copula Verification**

True rho: 0.50
Pearson r: 0.282
Kendall tau: 0.235
Expected tau: 0.333

**Status: OK**

# Cond 089: SN(a=+9,−9), T=50, rho=0.50 | Rep 176



**Summary: $\varepsilon_1$**

Mean: 0.041
SD: 0.969
Skew: 0.493
Kurt: −0.917

**Summary: $\varepsilon_2$**

Mean: 0.347
SD: 0.730
Skew: −0.705
Kurt: 0.447

**PIT Uniformity (KS)**

PIT1: D=0.068, p=0.965

PIT2: D=0.213, p=0.019

**Copula Verification**

True rho: 0.50
Pearson r: 0.101
Kendall tau: 0.022
Expected tau: 0.333

Status: **MAGNITUDE_WARNING**