

# AOLEvent

De Wiki

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```
public class AOLEvent {

    public static void main(String[] args) throws PatriusException {

        // AOL event with default values
        final AnomalyDetector aolEvent1 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI);

        // Same event with customized convergence values
        final double maxCheck = 0.5 * AbstractDetector.DEFAULT_MAXCHECK;
        final double threshold = 2. * AbstractDetector.DEFAULT_THRESHOLD;
        final AnomalyDetector aolEvent2 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI, maxCheck, threshold);

        // Same event with customized convergence values and specifying the
action to be done when events occurred
        final AnomalyDetector aolEvent3 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI, maxCheck, threshold,
Action.STOP);

        // Same event with customized convergence values, specifying the
action to be done when events occurred
        // and specifying the event is removed once it is occurred
        final AnomalyDetector aolEvent4 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI, maxCheck, threshold,
Action.STOP, true);

        System.out.println("Anomaly of the event: " +
FastMath.toDegrees(aolEvent4.getAnomaly()) + " deg");
        System.out.println("Anomaly of the event: " +
aolEvent4.getAnomalyType());
        System.out.println("Max check interval of the event: " +
aolEvent4.getMaxCheckInterval() + " s");
        System.out.println("Threshold of the event: " +
aolEvent4.getThreshold() + " s");
        System.out.println("Remove the event after occurring: " +
aolEvent4.shouldBeRemoved());
        System.out.println();
        System.out.println("Slope selection of the event: " +
aolEvent4.getSlopeSelection());
        System.out.println("Max iteration count of the event: " +
aolEvent4.getMaxIterationCount());

    }
}
```

}

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