

AnomalyEvent 4.5.1

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```
public class AnomalyEvent {

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

        final ArrayList<AnomalyDetector> detectorList = new
ArrayList<AnomalyDetector>();

        // AOL event with default values
        final AnomalyDetector anoEvent1 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI);
        detectorList.add(anoEvent1);

        // Same event with customized convergence values
        final double maxCheck = 0.5 * AbstractDetector.DEFAULT_MAXCHECK;
        final double threshold = 2. * AbstractDetector.DEFAULT_THRESHOLD;
        final AnomalyDetector anoEvent2 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI, maxCheck, threshold);
        detectorList.add(anoEvent2);

        // Same event with customized convergence values and specifying the
action to be done when events occurred
        final AnomalyDetector anoEvent3 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI, maxCheck, threshold,
Action.STOP);
        detectorList.add(anoEvent3);

        // 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 anoEvent4 = new
AnomalyDetector(PositionAngle.TRUE, FastMath.PI, maxCheck, threshold,
Action.STOP, true);
        detectorList.add(anoEvent4);

        for ( AnomalyDetector anomalyDetector : detectorList ) {
            System.out.println("Anomaly of the event: " +
FastMath.toDegrees(anomalyDetector.getAnomaly()) + " deg");
            System.out.println("Anomaly of the event: " +
anomalyDetector.getAnomalyType());
            System.out.println("Max check interval of the event: " +
anomalyDetector.getMaxCheckInterval() + " s");
            System.out.println("Threshold of the event: " +
anomalyDetector.getThreshold() + " s");
            System.out.println("Remove the event after occurring: " +
```

```
anomalyDetector.shouldBeRemoved());
        System.out.println();
        System.out.println("Slope selection of the event: " +
anomalyDetector.getSlopeSelection());
        System.out.println("Max iteration count of the event: " +
anomalyDetector.getMaxIterationCount());
        System.out.println();
    }

}

}
```

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