

```

<?xml version="1.0"?>

<!DOCTYPE rdf:RDF [
  <!ENTITY owl "http://www.w3.org/2002/07/owl#" >
  <!ENTITY xsd "http://www.w3.org/2001/XMLSchema#" >
  <!ENTITY rdfs "http://www.w3.org/2000/01/rdf-schema#" >
  <!ENTITY rdf "http://www.w3.org/1999/02/22-rdf-syntax-ns#" >
  <!ENTITY Prolog_Ontology "
http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#" >
]>

<rdf:RDF xmlns="http://www.w3.org/2002/07/owl#"
  xml:base="http://www.w3.org/2002/07/owl"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:Prolog_Ontology="
http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#">
  <Ontology rdf:about="http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology"/>

  <!--
  //////////////////////////////////////
  //
  // Object Properties
  //
  //////////////////////////////////////
  -->

  <!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#bestehtAus -->

  <ObjectProperty rdf:about="&Prolog_Ontology;bestehtAus"/>

  <!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#hatSyntaxElement
  -->

  <ObjectProperty rdf:about="&Prolog_Ontology;hatSyntaxElement">
    <rdfs:domain rdf:resource="&Prolog_Ontology;Prolog"/>
    <rdfs:range rdf:resource="&Prolog_Ontology;Token"/>
  </ObjectProperty>

  <!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#nutzt -->

  <ObjectProperty rdf:about="&Prolog_Ontology;nutzt"/>

```

```

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#setztGleich -->

<ObjectProperty rdf:about="&Prolog_Ontology;setztGleich"/>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#substituiert -->

<ObjectProperty rdf:about="&Prolog_Ontology;substituiert">
  <rdfs:subPropertyOf rdf:resource="&owl;topObjectProperty"/>
</ObjectProperty>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#substituiertMit -->

<ObjectProperty rdf:about="&Prolog_Ontology;substituiertMit"/>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#verwendet -->

<ObjectProperty rdf:about="&Prolog_Ontology;verwendet"/>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#wirdAbgebildet -->

<ObjectProperty rdf:about="&Prolog_Ontology;wirdAbgebildet"/>


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#wirdAngewendetAuf
-->

<ObjectProperty rdf:about="&Prolog_Ontology;wirdAngewendetAuf"/>


<!--
////////////////////////////////////
//
// Classes
//
////////////////////////////////////
-->


<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#EinfachesToken -->

<Class rdf:about="&Prolog_Ontology;EinfachesToken">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;SprachElement"/>
</Class>

```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Hornklausel -->

<Class rdf:about="&Prolog_Ontology;Hornklausel">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;Klausel"/>
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;bestehtAus"/>
      <someValuesFrom rdf:resource="&Prolog_Ontology;HornklauselElement"/>
    </Restriction>
  </rdfs:subClassOf>
</Class>

<!--
http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#HornklauselElement -->

<Class rdf:about="&Prolog_Ontology;HornklauselElement"/>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Klausel -->

<Class rdf:about="&Prolog_Ontology;Klausel"/>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Kopf -->

<Class rdf:about="&Prolog_Ontology;Kopf">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;HornklauselElement"/>
</Class>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Körper -->

<Class rdf:about="&Prolog_Ontology;Körper">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;HornklauselElement"/>
</Class>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#LogischesElement
-->

<Class rdf:about="&Prolog_Ontology;LogischesElement">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;Token"/>
</Class>

<!--
http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Programmiersprache -->
```

```

<Class rdf:about="&Prolog_Ontology;Programmiersprache"/>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Prolog -->

<Class rdf:about="&Prolog_Ontology;Prolog">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;Programmiersprache"/>
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;verwendet"/>
      <someValuesFrom rdf:resource="&Prolog_Ontology;Unifikation"/>
    </Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;hatSyntaxElement"/>
      <someValuesFrom rdf:resource="&Prolog_Ontology;Token"/>
    </Restriction>
  </rdfs:subClassOf>
</Class>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#SprachElement -->

<Class rdf:about="&Prolog_Ontology;SprachElement">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;Token"/>
</Class>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Substitution -->

<Class rdf:about="&Prolog_Ontology;Substitution">
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;substituiertMit"/>
      <hasValue rdf:resource="&Prolog_Ontology;Atom"/>
    </Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;substituiert"/>
      <hasValue rdf:resource="&Prolog_Ontology;Variable"/>
    </Restriction>
  </rdfs:subClassOf>
</Class>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Token -->

<Class rdf:about="&Prolog_Ontology;Token"/>

```

```

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Unifikation -->

<Class rdf:about="&Prolog_Ontology;Unifikation">
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;setztGleich"/>
      <hasValue rdf:resource="&Prolog_Ontology;Fakt"/>
    </Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;wirdAngewendetAuf"/>
      <hasValue rdf:resource="&Prolog_Ontology;Anfrage"/>
    </Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;nutzt"/>
      <someValuesFrom rdf:resource="&Prolog_Ontology;Substitution"/>
    </Restriction>
  </rdfs:subClassOf>
  <rdfs:subClassOf>
    <Restriction>
      <onProperty rdf:resource="&Prolog_Ontology;setztGleich"/>
      <hasValue rdf:resource="&Prolog_Ontology;Regel"/>
    </Restriction>
  </rdfs:subClassOf>
</Class>

<!--
http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#ZusammengesetztesToken
-->

<Class rdf:about="&Prolog_Ontology;ZusammengesetztesToken">
  <rdfs:subClassOf rdf:resource="&Prolog_Ontology;SprachElement"/>
</Class>

<!--
////////////////////////////////////
//
// Individuals
//
////////////////////////////////////
-->

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Anfrage -->

<NamedIndividual rdf:about="&Prolog_Ontology;Anfrage">
  <rdf:type rdf:resource="&Prolog_Ontology;LogischesElement"/>
  <Prolog_Ontology:wirdAbgebildet rdf:resource="&Prolog_Ontology;ZielKlausel"/>

```

```
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Atom -->

<NamedIndividual rdf:about="&Prolog_Ontology;Atom">
  <rdf:type rdf:resource="&Prolog_Ontology;EinfachesToken"/>
  <rdfs:comment>beginnt mit Kleinbuchstaben oder mit Apostroph</rdfs:comment>
  <sameAs rdf:resource="&Prolog_Ontology;Konstante"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#DefiniteKlausel -->

<NamedIndividual rdf:about="&Prolog_Ontology;DefiniteKlausel">
  <rdf:type rdf:resource="&Prolog_Ontology;Hornklausel"/>
  <Prolog_Ontology:bestehtAus rdf:resource="&Prolog_Ontology;VariablerKopf"/>
  <Prolog_Ontology:bestehtAus rdf:resource="&Prolog_Ontology;VariablerKörper"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Fakt -->

<NamedIndividual rdf:about="&Prolog_Ontology;Fakt">
  <rdf:type rdf:resource="&Prolog_Ontology;LogischesElement"/>
  <Prolog_Ontology:wirdAbgebildet rdf:resource="&Prolog_Ontology;FaktenKlausel"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#FaktenKlausel -->

<NamedIndividual rdf:about="&Prolog_Ontology;FaktenKlausel">
  <rdf:type rdf:resource="&Prolog_Ontology;Hornklausel"/>
  <Prolog_Ontology:bestehtAus rdf:resource="&Prolog_Ontology;KonstanterKörper"/>
  <Prolog_Ontology:bestehtAus rdf:resource="&Prolog_Ontology;VariablerKopf"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Konstante -->

<NamedIndividual rdf:about="&Prolog_Ontology;Konstante">
  <rdf:type rdf:resource="&Prolog_Ontology;EinfachesToken"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#KonstanterKopf -->

<NamedIndividual rdf:about="&Prolog_Ontology;KonstanterKopf">
  <rdf:type rdf:resource="&Prolog_Ontology;Kopf"/>
  <rdfs:comment>Kopf ist leer und deshalb wahr</rdfs:comment>
</NamedIndividual>
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#KonstanterKörper -->

<NamedIndividual rdf:about="&Prolog_Ontology;KonstanterKörper">
  <rdf:type rdf:resource="&Prolog_Ontology;Körper"/>
  <rdfs:comment>Körper ist leer und deshalb wahr</rdfs:comment>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Liste -->

<NamedIndividual rdf:about="&Prolog_Ontology;Liste">
  <rdf:type rdf:resource="&Prolog_Ontology;ZusammengesetztesToken"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Regel -->

<NamedIndividual rdf:about="&Prolog_Ontology;Regel">
  <rdf:type rdf:resource="&Prolog_Ontology;LogischesElement"/>
  <Prolog_Ontology:wirdAbgebildet rdf:resource="&Prolog_Ontology;DefiniteKlausel"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Variable -->

<NamedIndividual rdf:about="&Prolog_Ontology;Variable">
  <rdf:type rdf:resource="&Prolog_Ontology;EinfachesToken"/>
  <rdfs:comment>beginnt mit Grossbuchstaben</rdfs:comment>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#VariablerKopf -->

<NamedIndividual rdf:about="&Prolog_Ontology;VariablerKopf">
  <rdf:type rdf:resource="&Prolog_Ontology;Kopf"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#VariablerKörper -->

<NamedIndividual rdf:about="&Prolog_Ontology;VariablerKörper">
  <rdf:type rdf:resource="&Prolog_Ontology;Körper"/>
</NamedIndividual>

<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#Zahl -->
```

```
<NamedIndividual rdf:about="&Prolog_Ontology;Zahl">
  <rdf:type rdf:resource="&Prolog_Ontology;EinfachesToken"/>
</NamedIndividual>
```

```
<!-- http://www.semanticweb.org/mira/ontologies/2014/9/Prolog_Ontology#ZielKlausel -->
```

```
<NamedIndividual rdf:about="&Prolog_Ontology;ZielKlausel">
  <rdf:type rdf:resource="&Prolog_Ontology;Hornklausel"/>
  <Prolog_Ontology:bestehtAus rdf:resource="&Prolog_Ontology;KonstanterKopf"/>
  <Prolog_Ontology:bestehtAus rdf:resource="&Prolog_Ontology;VariablerKörper"/>
</NamedIndividual>
```

```
<!--
////////////////////////////////////
//
// General axioms
//
////////////////////////////////////
-->
```

```
<rdf:Description>
  <rdf:type rdf:resource="&owl;AllDifferent"/>
  <distinctMembers rdf:parseType="Collection">
    <rdf:Description rdf:about="&Prolog_Ontology;Konstante"/>
    <rdf:Description rdf:about="&Prolog_Ontology;Variable"/>
    <rdf:Description rdf:about="&Prolog_Ontology;Zahl"/>
  </distinctMembers>
</rdf:Description>
```

```
<rdf:Description>
  <rdf:type rdf:resource="&owl;AllDifferent"/>
  <distinctMembers rdf:parseType="Collection">
    <rdf:Description rdf:about="&Prolog_Ontology;Atom"/>
    <rdf:Description rdf:about="&Prolog_Ontology;Variable"/>
  </distinctMembers>
</rdf:Description>
```

```
<rdf:Description>
  <rdf:type rdf:resource="&owl;AllDifferent"/>
  <distinctMembers rdf:parseType="Collection">
    <rdf:Description rdf:about="&Prolog_Ontology;Atom"/>
    <rdf:Description rdf:about="&Prolog_Ontology;Zahl"/>
  </distinctMembers>
</rdf:Description>
```

```
</rdf:RDF>
```

```
<!-- Generated by the OWL API (version 3.5.0) http://owlapi.sourceforge.net -->
```