

RuleML*

Harold Boley¹, Marcel Ball^{1,2}, David Hirtle²

¹ National Research Council, Fredericton, New Brunswick, Canada

² Faculty of Computer Science, University of New Brunswick, Fredericton, New Brunswick, Canada

Rule

modelling
markup
translation
interchange
execution
publication
archiving

in

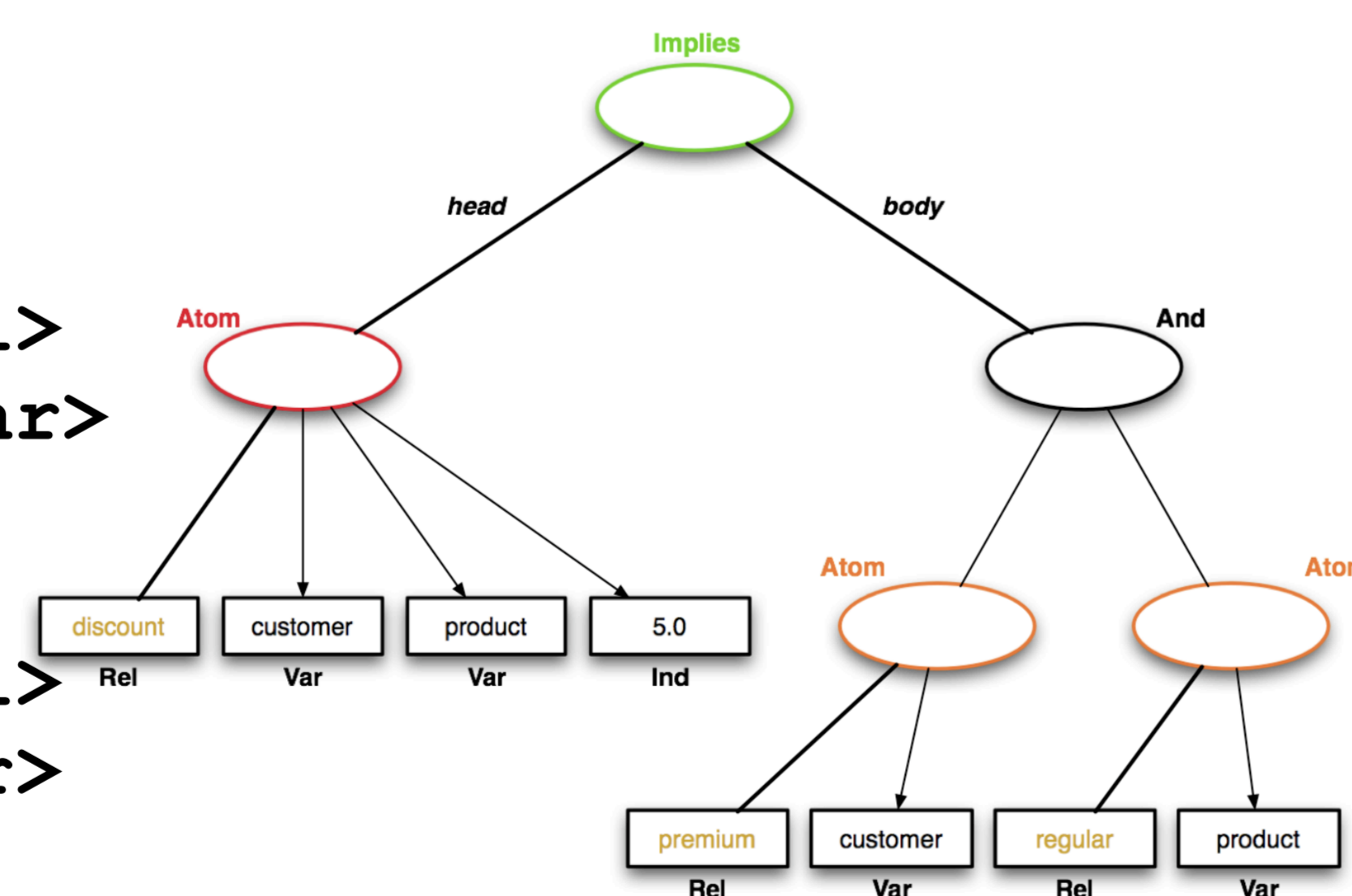
UML
RDF
XML
POSL

sublanguage family
using XML Schema
executed in OO jDREW

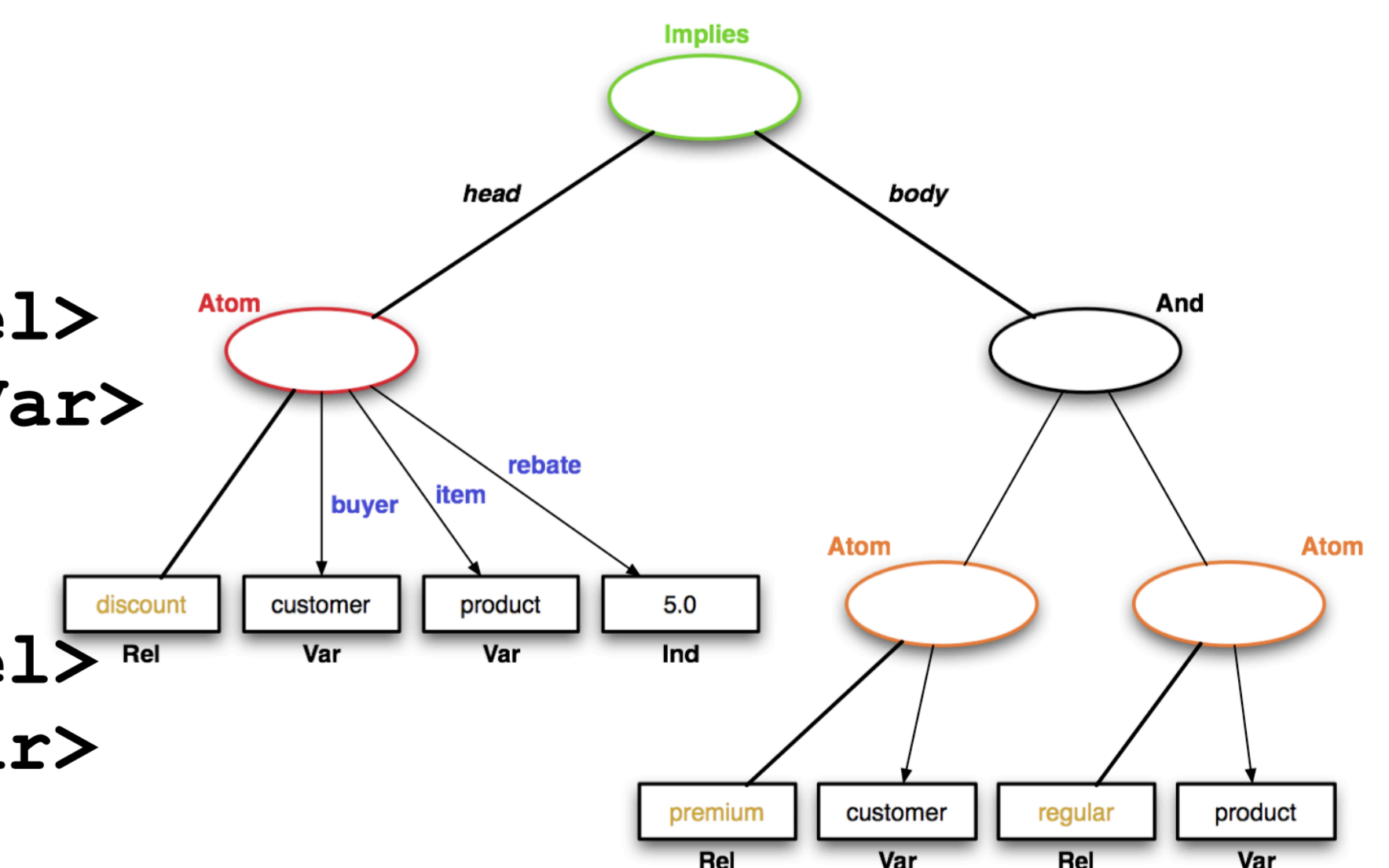
Business Rules: Positional & Slotted

"The **discount** for a *customer* buying a *product* is 5 percent if the *customer* is **premium** and the *product* is **regular**."

```
<Implies>
<head>
  <Atom>
    <Rel>discount</Rel>
    <Var>customer</Var>
    <Var>product</Var>
    <Ind>5.0</Ind>
  </Atom>
</head>
<body>
  <And>
    <Atom>
      <Rel>premium</Rel>
      <Var>customer</Var>
    </Atom>
    <Atom>
      <Rel>regular</Rel>
      <Var>product</Var>
    </Atom>
  </And>
</body>
</Implies>
```



```
<Implies>
<head>
  <Atom>
    <Rel>discount</Rel>
    <slot><Ind>buyer</Ind><Var>customer</Var></slot>
    <slot><Ind>item</Ind><Var>product</Var></slot>
    <slot><Ind>rebate</Ind><Ind>5.0</Ind></slot>
  </Atom>
</head>
<body>
  <And>
    <Atom>
      <Rel>premium</Rel>
      <Var>customer</Var>
    </Atom>
    <Atom>
      <Rel>regular</Rel>
      <Var>product</Var>
    </Atom>
  </And>
</body>
</Implies>
```



Collaborates with W3C, OMG, and OASIS

(Semantic) Web Rule Language and Semantic Web Services Language serialized in RuleML