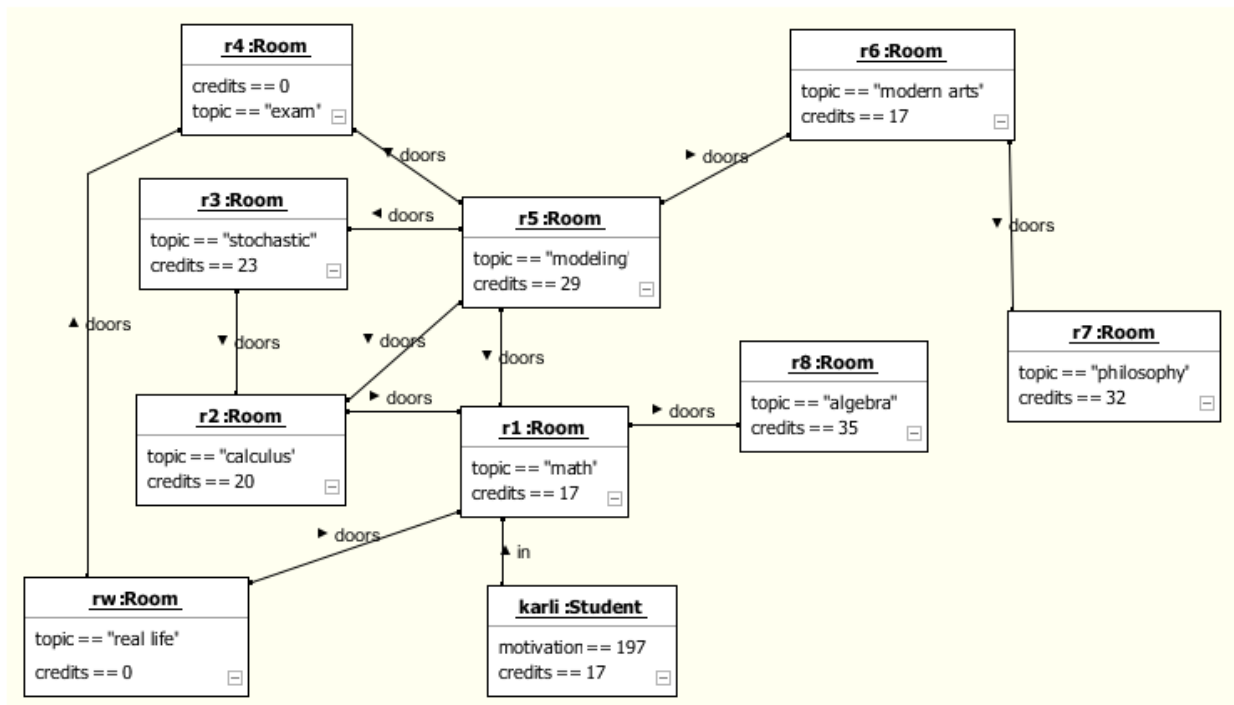


Vorlesung Graphentechnik, SS 2011

Hausaufgabe 1

Aufgabe 1:

Formalisiere den folgenden Graphen als gakk-Graphen



Lösung 1:

$G := (NL, EL, A, N, E, I, av)$ mit

- NL = {Room, Student}
- EL = {doors, in}
- A = {Room.credits, Room.topic, Student.motivation, Student.credits}
- N = {r1, r2, r3, r4, r5, r6, r7, r8, rw, karli}
- E = {(karli, in, r1), (rw, doors, r1), (rw, doors, r4), (r2, doors, r1), (r1, doors, r8), (r3, doors, r2), (r5, doors, r3), (r5, doors, r2), (r5, doors, r1), (r5, doors, r6), (r4, doors, r5), (r6, doors, r7)}
- I = {r1 → Room, r2 → Room, r3 → Room, r4 → Room, r5 → Room, r6 → Room, r7 → Room, r8 → Room, rw → Room, karli → Student}
- av = {(r1, topic) → „math“, (r1, credits) → „17“, (r2, topic) → „calculus“,

(r2, credits) → „20“, (r3, topic) → „stochastic“, (r3, credits) → „23“,
(r4, topic) → „exam“, (r4, credits) → „0“, (r5, topic) → „modeling“,
(r5, credits) → „29“, (r6, topic) → „modern arts“, (r6, credits) → „17“,
(r7, topic) → „philosophy“, (r7, credits) → „32“, (r1, topic) → „algebra“,
(r1, credits) → „35“, (rw, topic) → „real life“, (rw, credits) → „0“,
(karli, motivation) → „197“, (karli, credits) → „17“}