Recall the orbit category. Let G be a first group.

Obj. OG = {G/H | H = G} Mnog (C/H, G/K) = Gegenization I maps (using the left G-action) unruly (using the left G-action) unruly of high k, kek, high may him Answer: geg/K so that gillg \(\) K.

Recall that the cancept of a Mady functor is motivated by

Resall that the concept of a Mady functor is motivated by the structure on $(T_n(E^H))_{H \in G}$, with closes n, or a given E. LMS 1213

bouce continuent: Of Ab continue continued.

Duelit: DG/H = G/H

Duelit: DG/H = G/H

Ab continue continue continue of A.

thought in DE-peter There Juneters coincide on objects

M (G/H)
Theley funds

Duality gives us an acron called the projection formula.

Extending a Mochy function 4. No. nts: X = II G/H.

X $MX := \bigoplus_{i \in I} n(G/H_i),$ Projection formula: a 6- m $\longrightarrow M(\psi_J)$ M (6/H×c/n6/J) Refinition: A & Pocher functor of pair of fractors M (C/H) Oc -> Ab which coincide on object (motatin: 11(6/H) satisfying the projection famille. The double coset

tge 6/12 | g 1 Hg = K}

Up- Hackey function M:

I rotugg (0)

8.7(104)-1 n(103)

doubt and formula

8h= Ig

General examples of Marchy functions:

The Burnside Marchy function

of (H) = A(H)

Whomas with equival homosof theory:

ch = Ito (S).

Bunsile wing for

6 a first scorp:

K (1 = charce of finite 6-set) 1)

= 2 (6/H | (H) = 6)

Count conjugate
out once

whichous - vertical office

Constrained - industry

H = K

H- Ed X -> K× HX

Exercise: Machy Juncto

(we will return to

vely it is a ving)

The representation wing
Mody factor R:

Q(H) = R(H)

A = K_6 (*)

The constant " Machy functor: let Q be an abelian group

R(H) = K = choses of J.J. cx. representations
of H, P }

= Z{=chors of ineducible apresentations}

untuctions = untichous unesfortedon = Induction

H-y. V M CKOCHV

Q(H) = Q

ushichian = Id

countriction: H -> K: multiplication

hy [K:H] = |K|