

$$\begin{array}{l} (X,B) \\ f: \\ Y \rightarrow \\ X \\ K_Y+C=f^*(K_X+B), \end{array}$$

$$\begin{array}{l} E \\ a(E;X,B) \end{array}$$

$$a(E;X,B)=-mult_EC.$$

$$(X,B)$$

$$discrep(X,B):=\inf\{a(E;X,B):E\text{isanexceptionaldivisorover}X\}$$

$$totdiscrep(X,B):=\inf\{a(E;X,B):E\text{isadivisorover}X\}.$$

$$\begin{array}{l} \pi: \\ U \rightarrow \\ (X,B) \\ Q \\ K_X+ \\ B \\ B \\ B \\ C^0 \\ RK_X+ \\ B+ \\ C \\ U \\ C \\ (K_X+ \\ B) \\ \pi: \\ U \rightarrow \\ (X,B) \\ Q \\ K_X+ \\ B \\ R \\ K_X+ \\ B \\ U \\ (K_X+ \\ B)g: \\ Y \rightarrow \\ Z \\ (X,B) \\ C \\ a(E;X,B)0 \\ E \\ f: \\ Z \rightarrow \\ Q \\ B_Z \\ (Z,B_Z) \\ E \\ f \\ E \in \\ E \in \\ Cmult_EB_Z= \\ -a(E;X,B) \\ f_*B_Z= \\ B \\ K_Z+ \\ B_Z= \\ f^*(K_X+ \\ B) \\ C \\ a(E;X,B)0 \\ E \\ Z \\ X \\ C \\ a(E;X,B)0 \\ f: \\ Z \rightarrow \\ \mathbf{di-} \\ \mathbf{vi-} \\ \mathbf{so-} \\ \mathbf{rial} \\ \mathbf{ex-} \\ \mathbf{trac-} \\ \mathbf{tion} \\ \{(X_i,B_i)\} \\ (W,B_W) \\ (K_W+ \\ B_W) \end{array}$$