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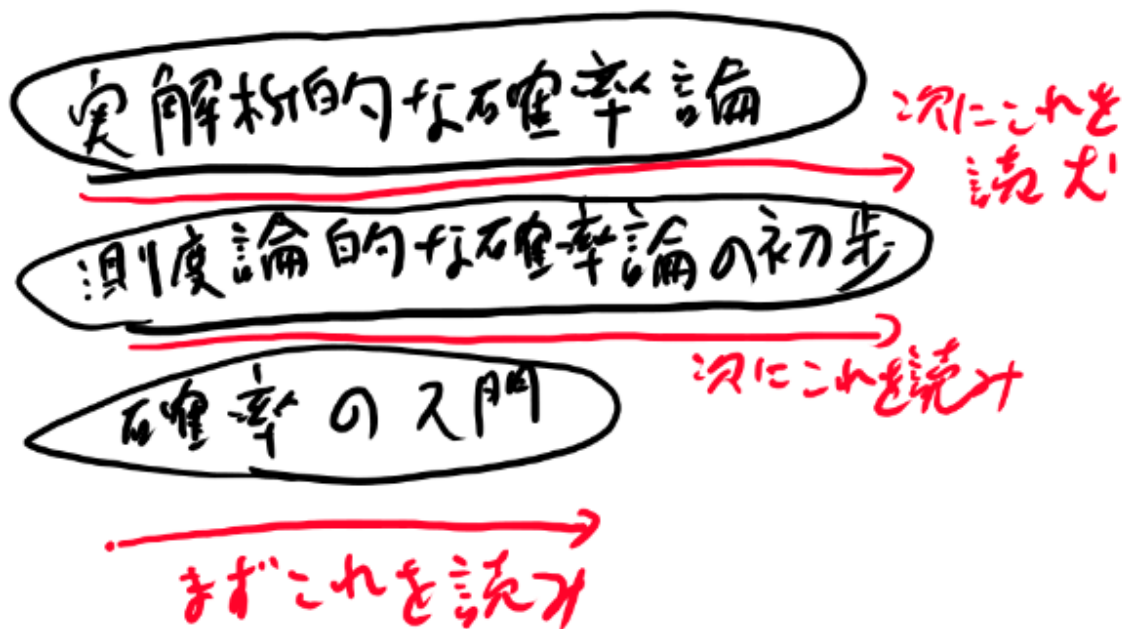


Figure 1: imgs/intro/0000.png

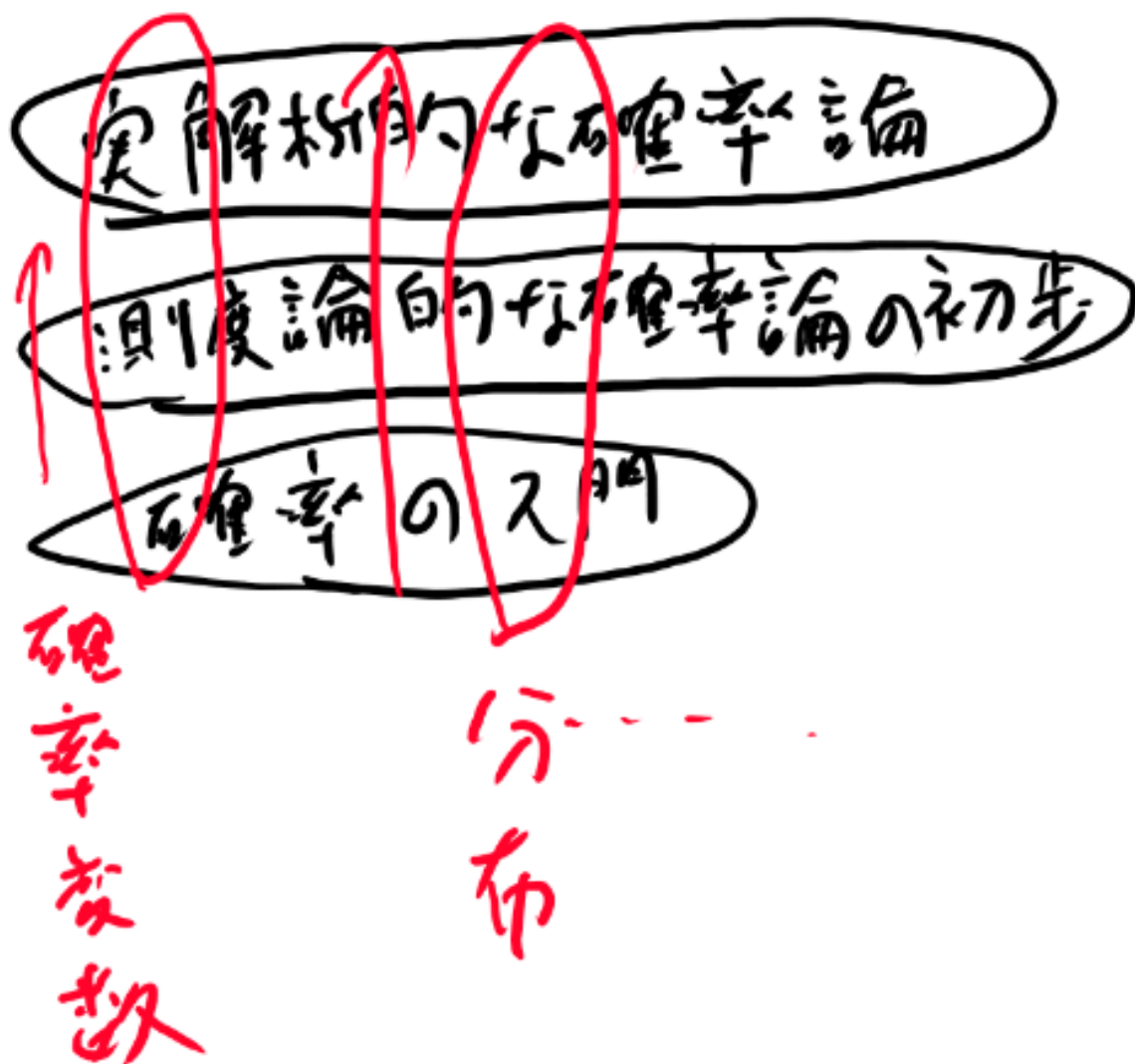


Figure 2: imgs/intro/0001.png

# Chapter 1

3 3P  
P

$$(\Omega, \mathcal{B}, P)$$

$$\{1, 2, 3, 4, 5, 6\}$$

$$\Omega$$

$$\Omega = \{1, 2, 3, 4, 5, 6\}$$

$$\{2,4,6\}$$

BF FFB

$$\mathcal{B}$$

B

$$B\in\mathcal{B}$$

**P**

P

P

$$P()=\frac{1}{2}$$

B

3

$$(\Omega,\mathcal{B},P)$$

2012

...

2018

3

$$(\Omega, \mathcal{B}, P)$$

P

P

3

1

P

P P

$$\mathcal{B}$$

A, B

$$A \cup B$$

$$\bar{A}$$

$$A \cap B$$

$$\mathcal{B}$$

42 notintersection

$$\mathcal{B}$$

# Chapter 2

( 21) <https://www.amazon.co.jp/dp/4320015622/>  
p15

- not
- intersection

intersection intersection

4

B B

$\mathcal{B}$

$B \in \mathcal{B}$

B

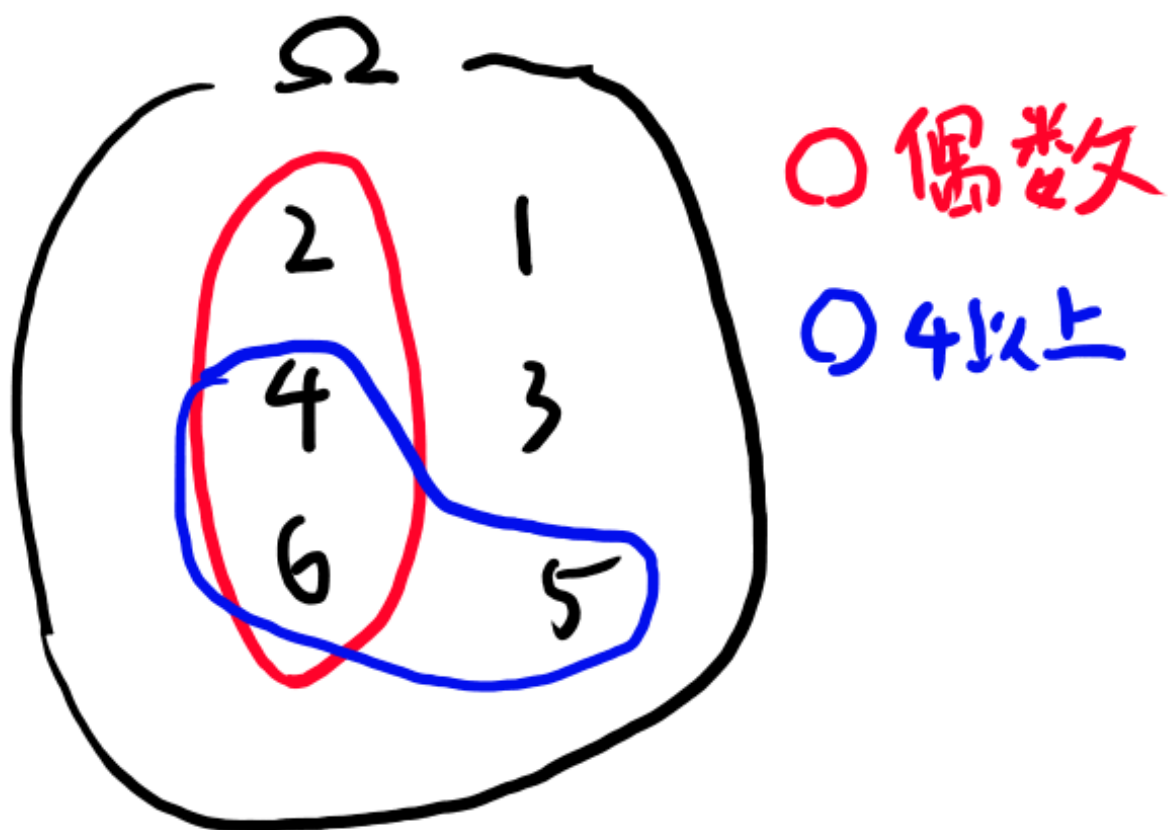


Figure 2.1: imgs/borel/0000.png



$$\{2,4,6\}$$

$$\Omega$$

$$\mathcal{B}$$

$$\Omega$$

$$1$$

$$\mu$$

$$\mu()=\mu(\{2,4,6\})=3$$

$$\mathcal{B}$$

$$\mathcal{B}$$

$$\mathcal{B}$$

$$\text{intersection}$$

$$\mathcal{B}$$

$$\mathcal{B}$$

$$\mathcal{B}$$

$$\{2,4,6\}\in\mathcal{B}$$

$$\{1,3,5\}\in\mathcal{B}$$

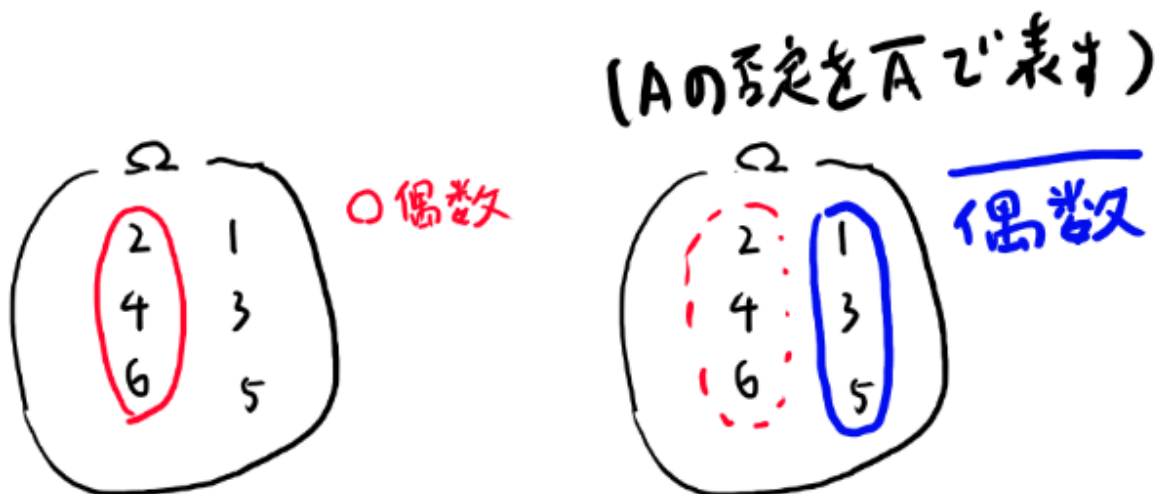


Figure 2.2: imgs/borel/0001.png

$$P(A) = 1 - P(\bar{A})$$

$\mathcal{B}$

intersect

4

$$\{\cap 4\} \in \mathcal{B}$$

$$\{4, 6\} \in \mathcal{B}$$

intersect

$\mathcal{B}$

OK

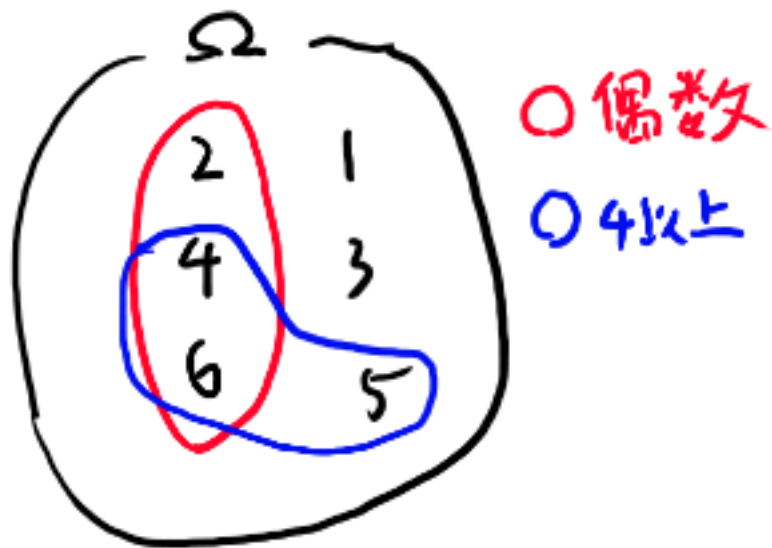


Figure 2.3: imgs/borel/0002.png

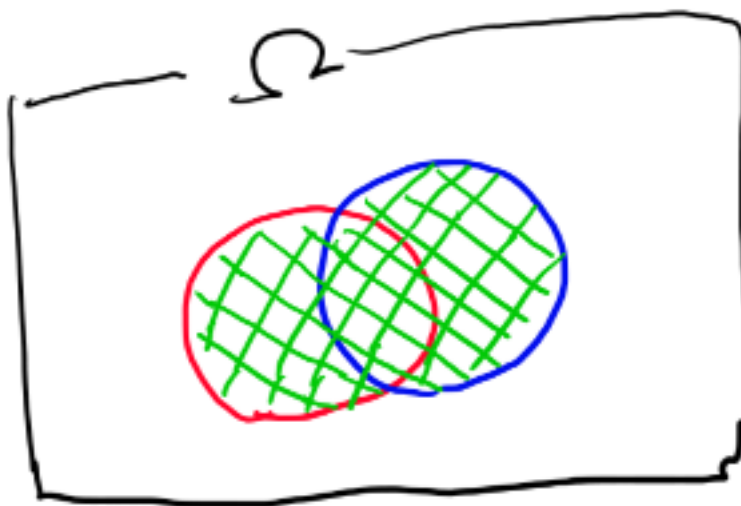


Figure 2.4: imgs/borel/0003.png

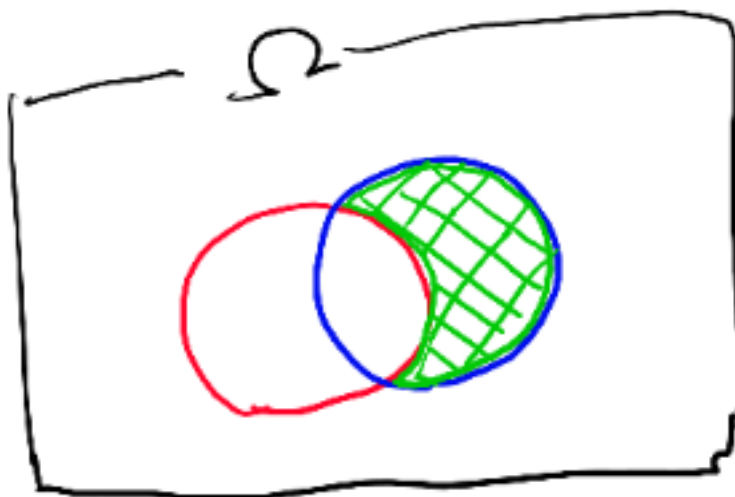


Figure 2.5: imgs/borel/0004.png

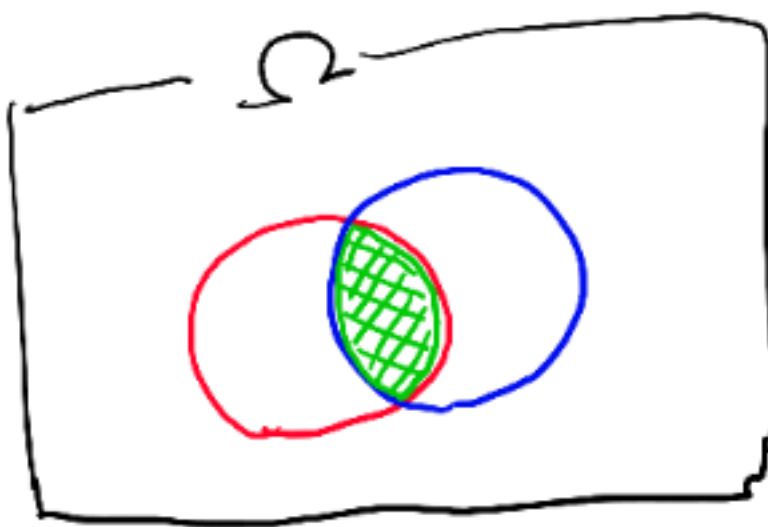


Figure 2.6: imgs/borel/0005.png

1  
 notintersection  
 AB

$$P(A \cup B) = P(A) + P(B) - P(A \cap B)$$

$$A \cup B$$

$$A \cap B$$

P  
 P

3

1  
 P  
 P P

$$\mathcal{B}$$

A, B

$$A \cup B$$

$$\bar{A}$$

$$A \cap B$$

$$\mathcal{B}$$

42 notintersection

$$\mathcal{B}$$