# <Lecture Title>

**Summer 2020**

**<Lecturer>**

**May 24, 2020**

# Content

# Content

# Overview of this Lecture

1. A section, like a chapter

# Some basic itemize

## Some Subtitle

- A bullet point ✓
- A bullet point
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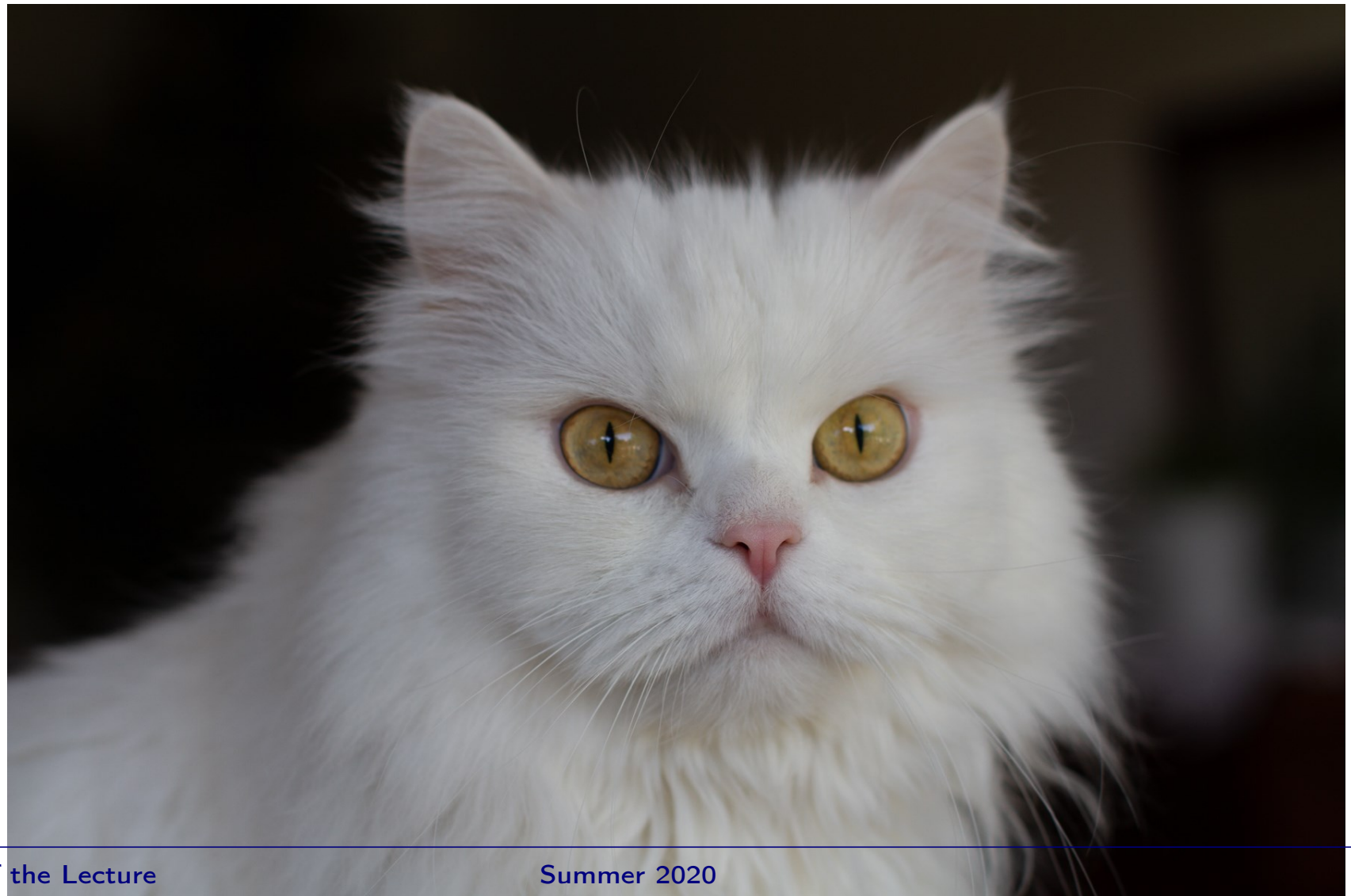
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

## \bild{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{1}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3      def __init__(self, sidelength = 1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4 * self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 1: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 2: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 3: The Caption

# Overview of this Lecture

2. A section, like a chapter

# Some basic itemize

## Some Subtitle

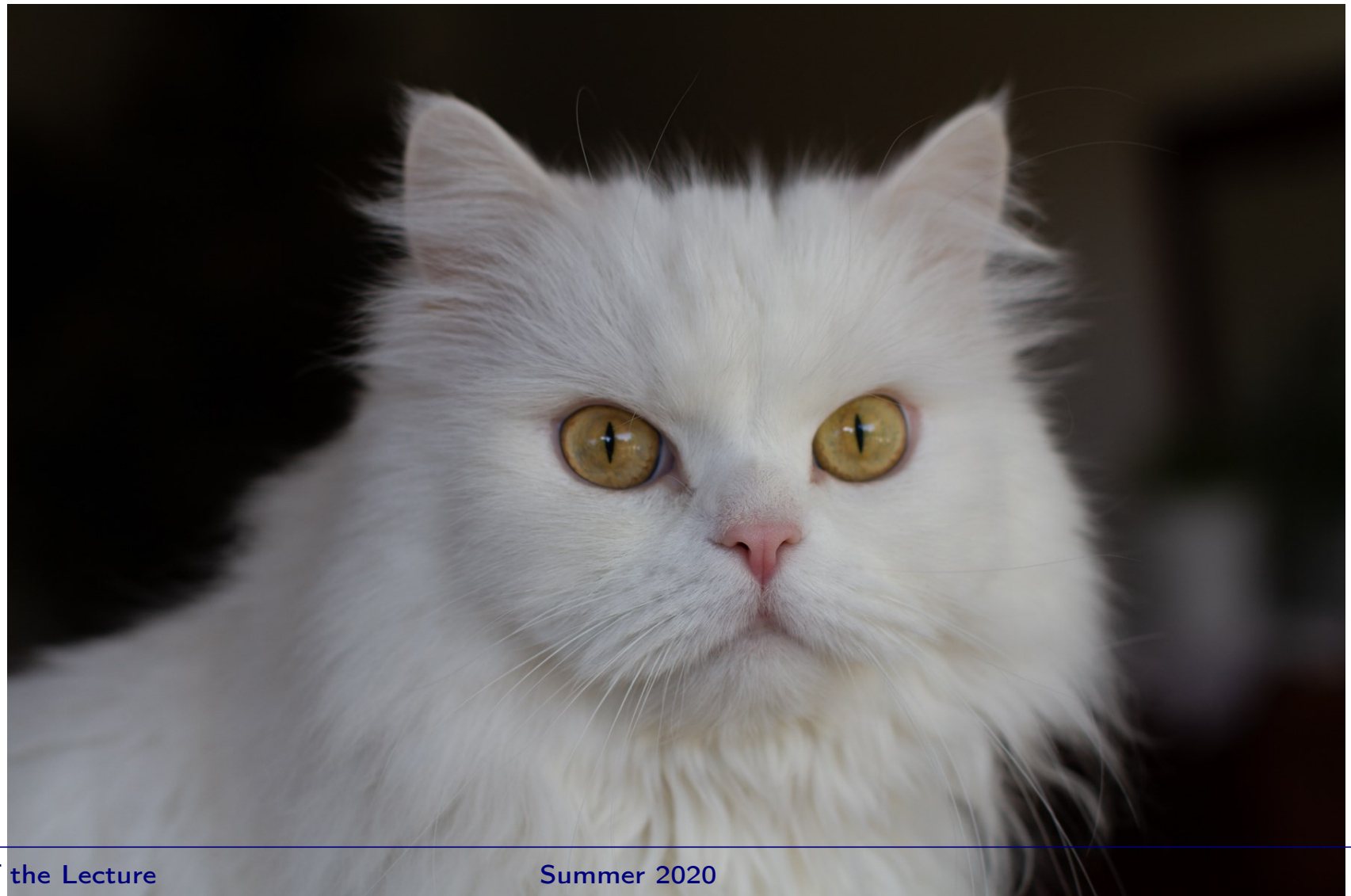
- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

## \bild{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{2}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3      def __init__(self, sidelength = 1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4 * self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 4: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 5: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 6: The Caption

# Overview of this Lecture

3. A section, like a chapter

# Some basic itemize

## Some Subtitle

- A bullet point ✓
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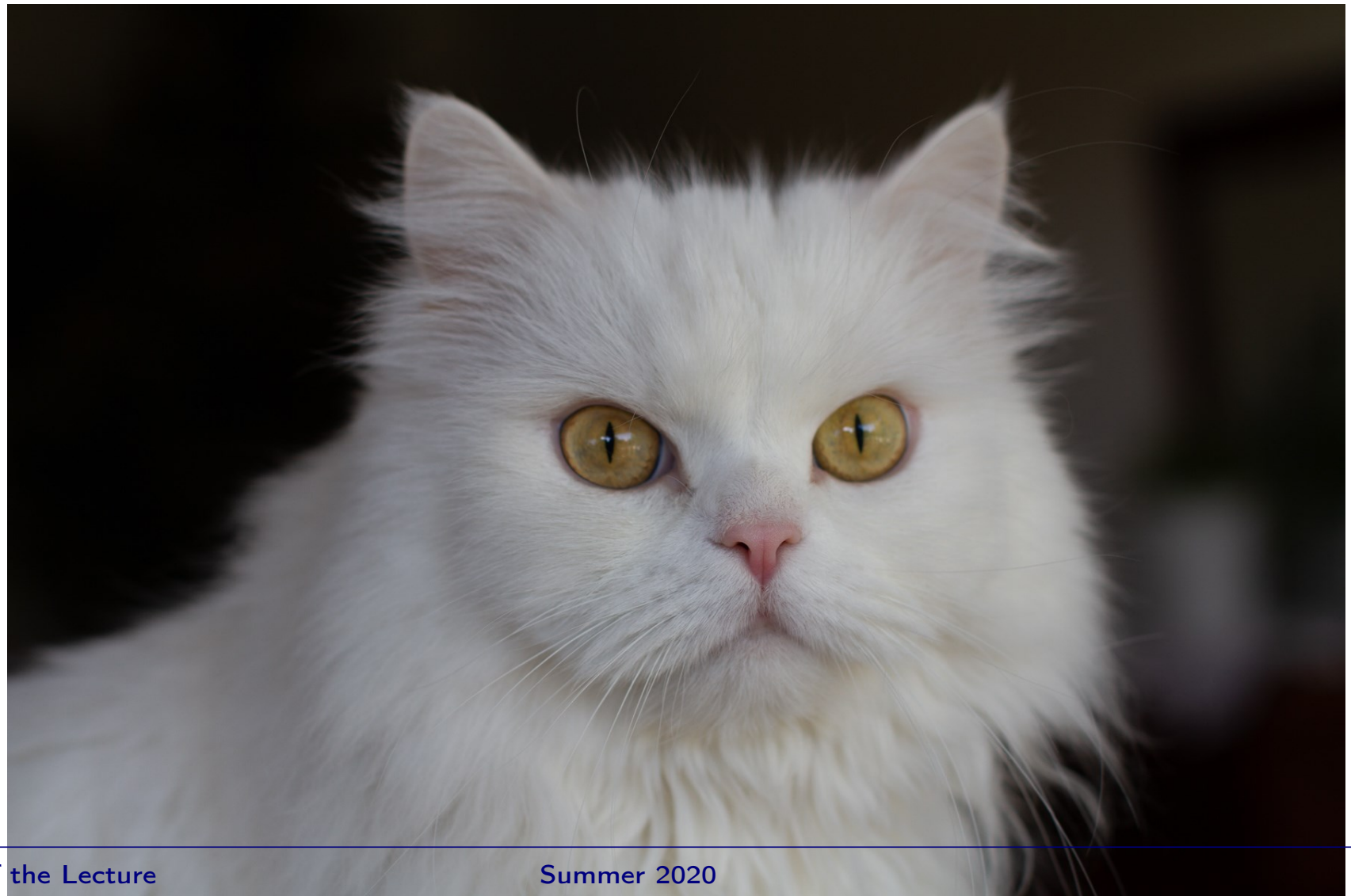
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

## \bild{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{3}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3     def __init__(self, sidelength = 1):
4        self.length = sidelength
5
6     def calculate_circumference(self):
7        return 4 * self.length
8
9     def calculate_area(self):
10       return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 7: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 8: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 9: The Caption

# Overview of this Lecture

4. A section, like a chapter

# Some basic itemize

## Some Subtitle

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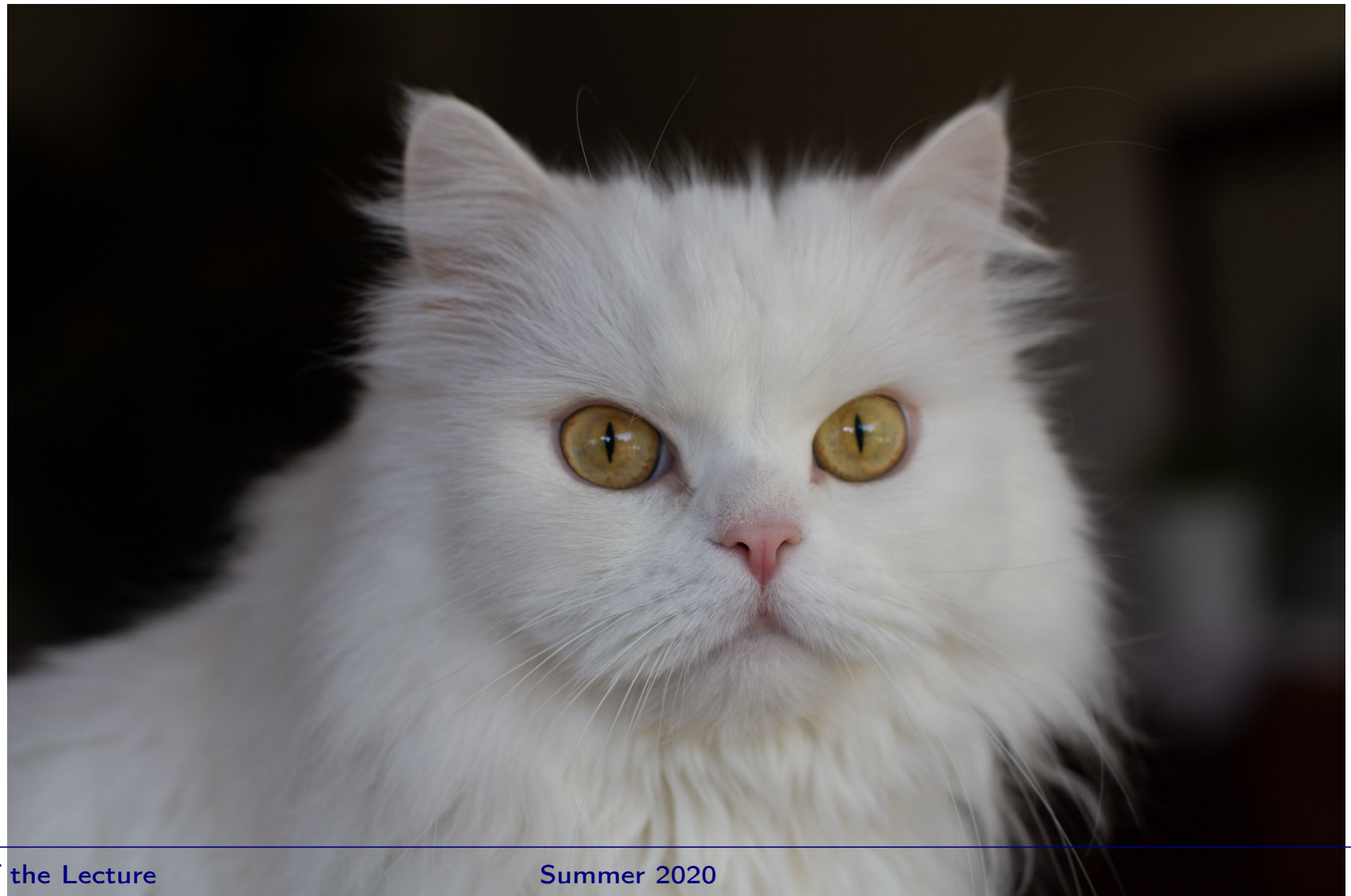
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

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Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{4}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3     def __init__(self, sidelength = 1):
4        self.length = sidelength
5
6     def calculate_circumference(self):
7        return 4 * self.length
8
9     def calculate_area(self):
10       return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 10: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 11: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 12: The Caption

# Overview of this Lecture

5. A section, like a chapter

# Some basic itemize

## Some Subtitle

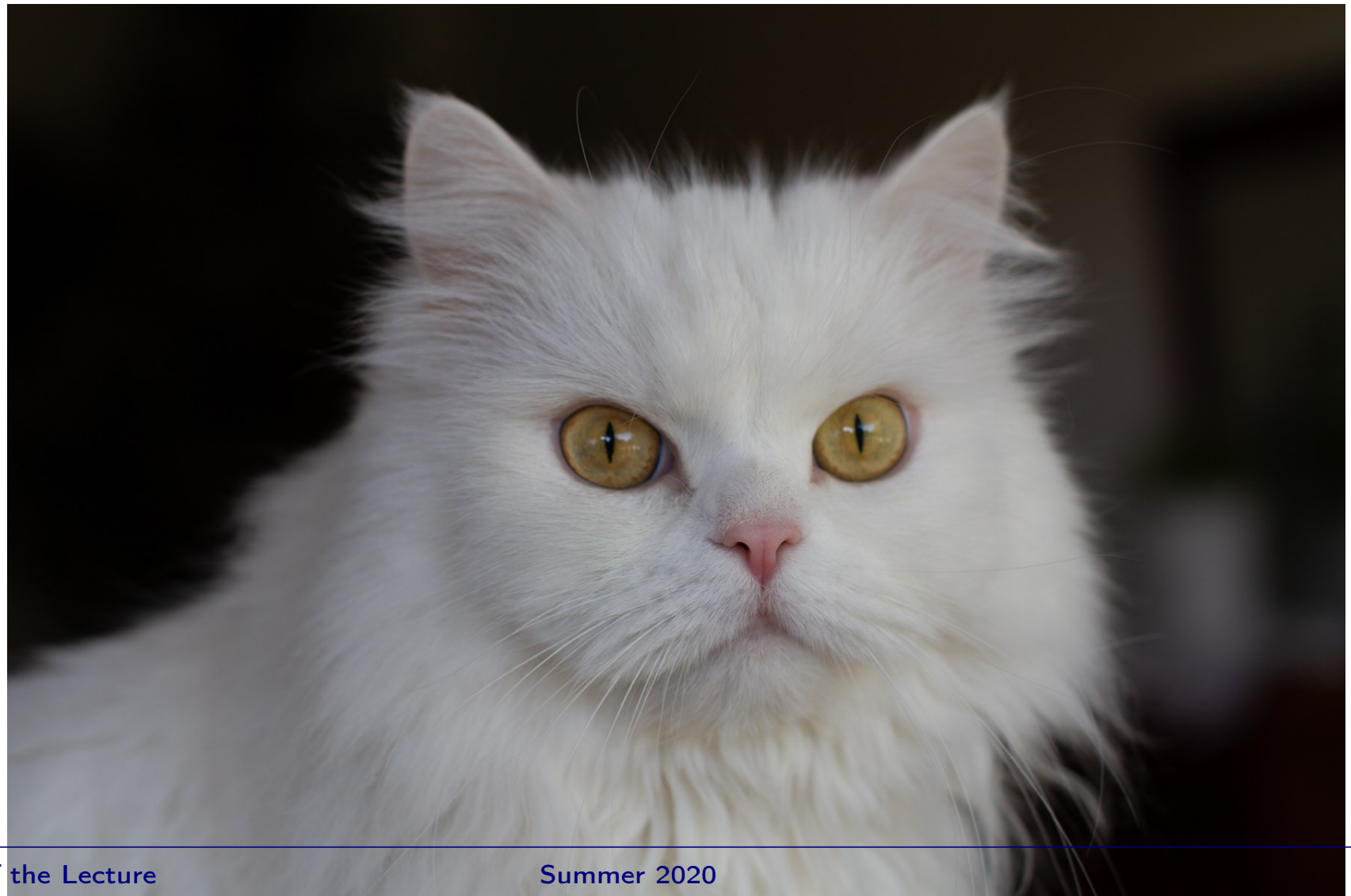
- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

## \bild{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{5}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3      def __init__(self, sidelength = 1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4 * self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 13: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 14: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 15: The Caption

# Overview of this Lecture

6. A section, like a chapter

# Some basic itemize

## Some Subtitle

- A bullet point ✓
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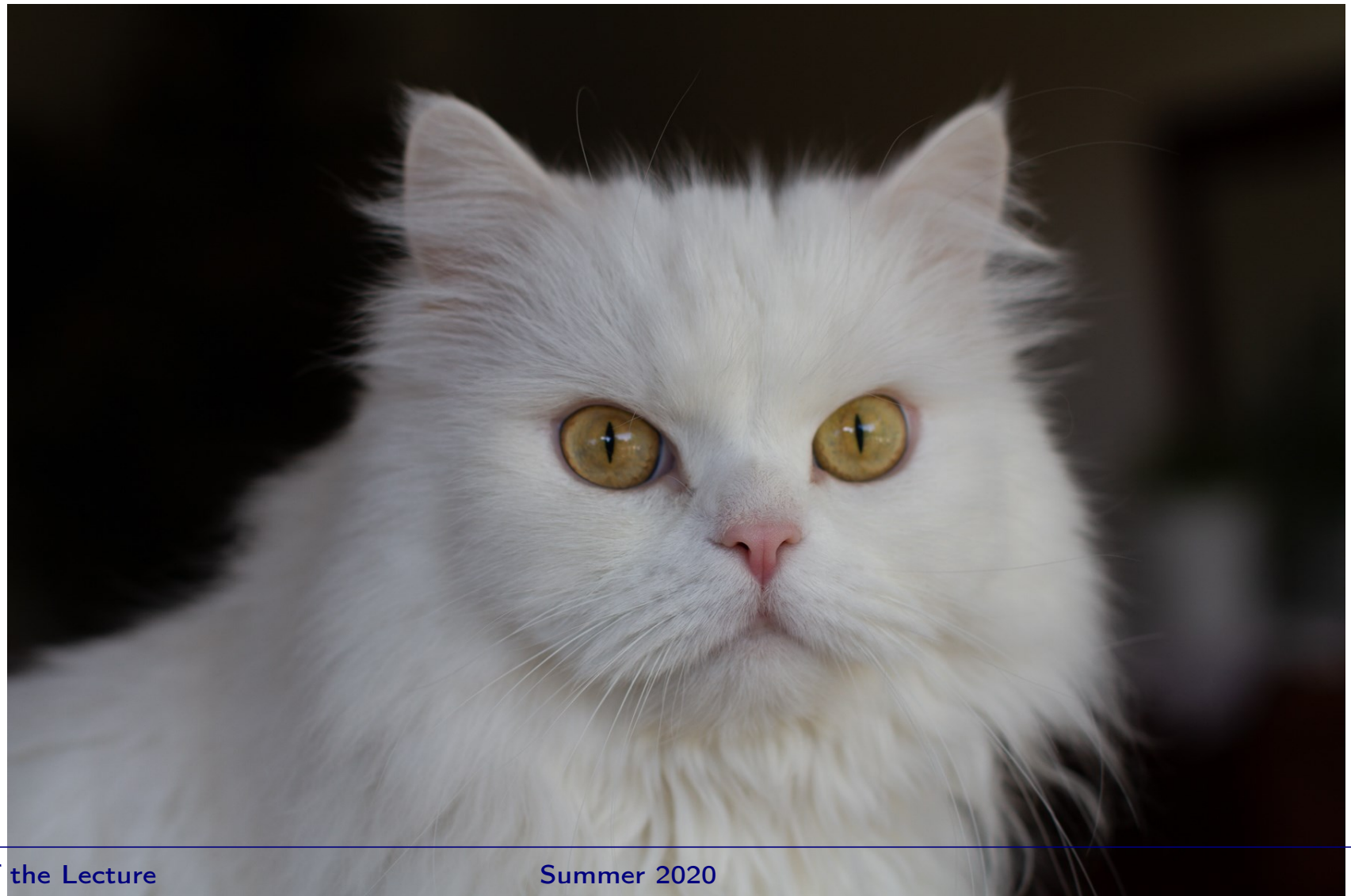
- A bullet point
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

## \bild{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{6}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3     def __init__(self, sidelength = 1):
4        self.length = sidelength
5
6     def calculate_circumference(self):
7        return 4 * self.length
8
9     def calculate_area(self):
10       return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 16: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 17: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 18: The Caption

# Overview of this Lecture

7. A section, like a chapter

# Some basic itemize

## Some Subtitle

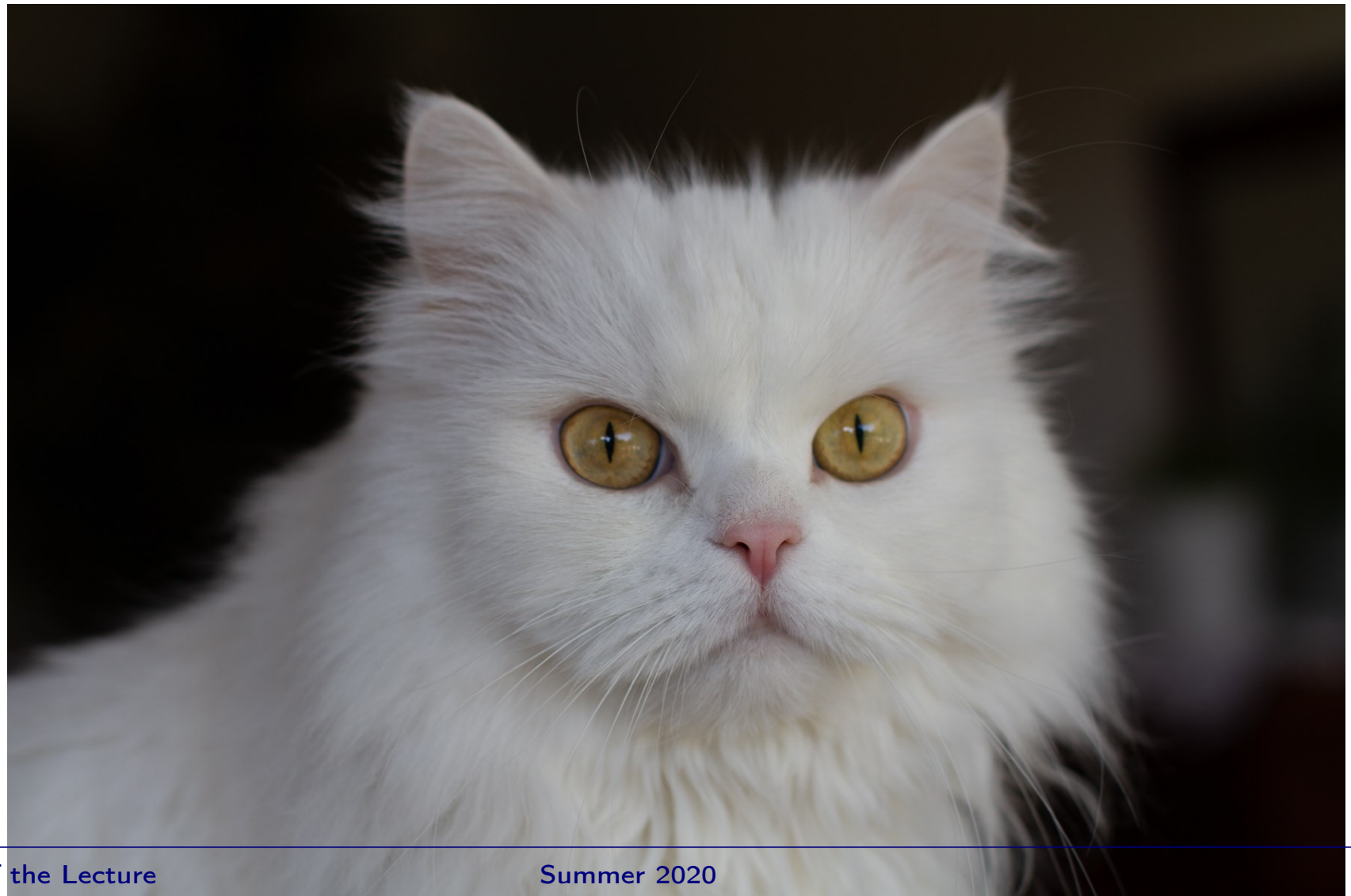
- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

## \bild{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{7}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3      def __init__(self, sidelength = 1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4 * self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 19: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 20: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 21: The Caption

# Overview of this Lecture

8. A section, like a chapter

# Some basic itemize

## Some Subtitle

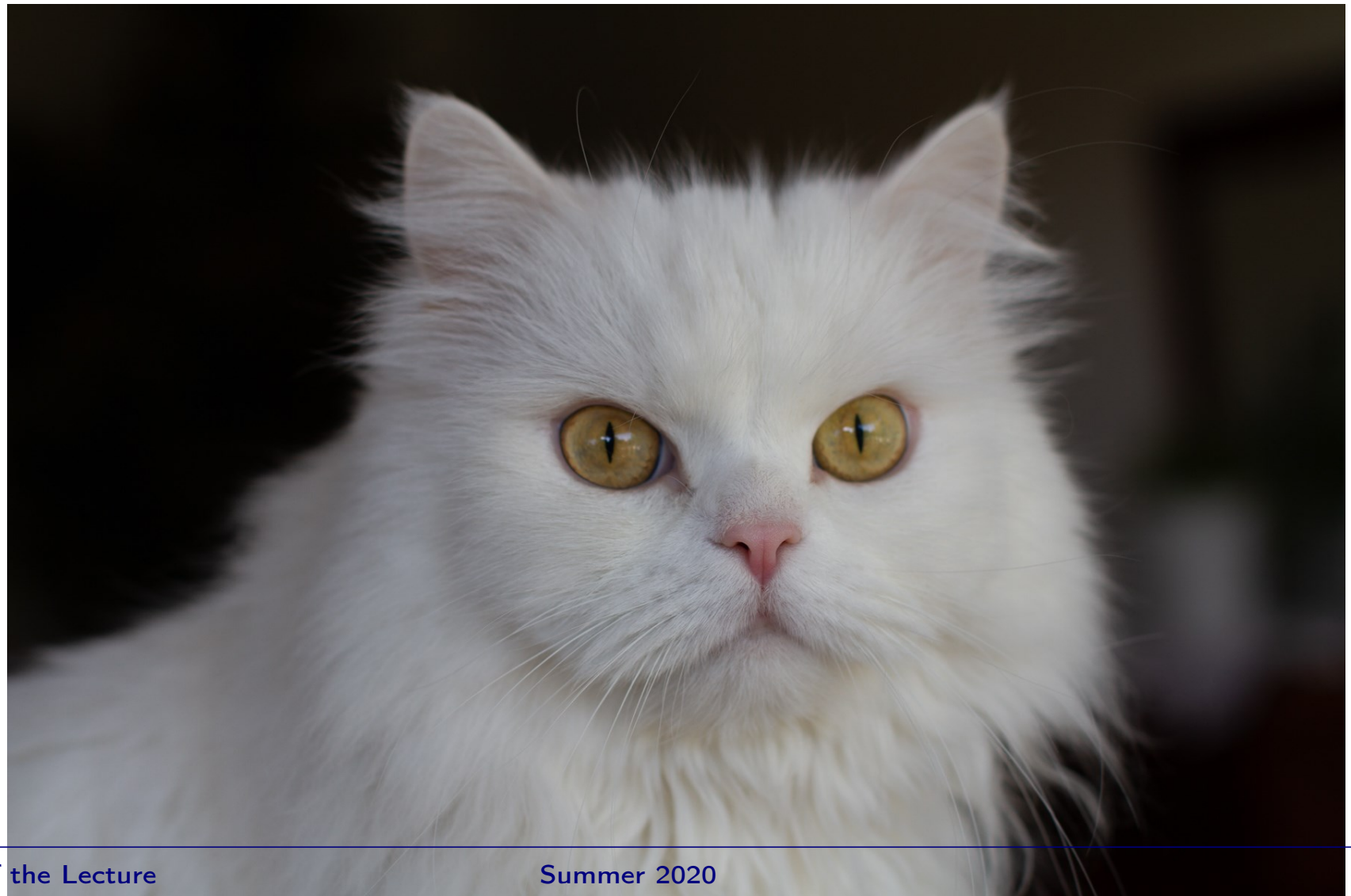
- A bullet point ✓
- A bullet point
- A bullet point
- A bullet point
- A bullet point

# An Image

Figure: This is a cat

# An Image

## \bilds{<image>}



# An Image

## \bild{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildf{<scale>}{<image>}{<caption>}

Figure: The Caption

# An Image

## \bildfc{<scale>}{<image>}{<caption>}

The Caption

# Some basic Math

$$x_{1,2} = -\frac{p}{2} \pm \sqrt{\left(\frac{p}{2}\right)^2 - q} \tag{8}$$

# Some Code Listing

## Manual lstlisting env

```
1  class Square():
2
3     def __init__(self, sidelength = 1):
4        self.length = sidelength
5
6     def calculate_circumference(self):
7        return 4 * self.length
8
9     def calculate_area(self):
10       return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 22: A square class in Python

# Some Code Listing

## Manual lstinputlisting

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 23: Another square class in Python

# Some Code Listing

## \pypy{Caption}{File}

```
1  class Square():
2
3      def __init__(self, sidelength=1):
4          self.length = sidelength
5
6      def calculate_circumference(self):
7          return 4*self.length
8
9      def calculate_area(self):
10         return self.length**2
11
12 q = Square(sidelength=25)
13 print(q.calculate_circumference())
14 print(q.calculate_area())
```

Listing 24: The Caption